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FOREWORD

Minnesota Health Statistics 1986 was prepared by the Minnesota Center for Health Statistics of the Minnesota Department of Health and is the 36th annual summary of vital statistics published by the Department. The document also responds, in part, to the requirements of a contract held with the United States Department of Health, Education, and Welfare to establish and implement a cooperative health statistics program for Minnesota.

If you have suggestions concerning the report format, queries concerning the data formulae used in developing the statistics, or if you have requests for additional statistics or other related publications, please contact:

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Introduction

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TECHNICAL NOTES

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A. CHANGES IN FORMAT

1986 marks the first year for which new data contained on the revised marriage dissolution collection instrument initiated in 1985 (see Appendix B, Figure 11) were analyzed. Several new tables pertaining to dissolution or annulment of marriages occurring in Minnesota appear in this 1986 publication.

B. SOURCES OF DATA

Vital Events

Birth, death, and fetal death certificates are the source documents for data on vital events of Minnesota residents filed with the Section of Vital Statistics Registration within the Minnesota Department of Health during the 1986 calendar year. A sample copy of each of these types of certificates is included in Appendix B, Figures 8-10, pages 161-163. Marriage and divorce data are compiled from statistical report forms and summary worksheets submitted to the Section of Vital Statistics Registration by each County Court Administrator.

The cut-off date for 1986 vital events data in this report was August 1, 1987. Any data pertaining to a 1986 event for which a certificate was filed after August 1, 1987 are not included in this report. It is possible that future data obtained from the MCHS may differ slightly from that which appears in this report. If this should occur, it is due to an update to the 1986 data year which was made after the August 1 deadline.

Events relating to Minnesota residents which occurred in another state are included in this report.[1] The inclusion of these data is made possible by an agreement for resident exchange of copies of certificates among all registration areas in the United States.

Birth and fetal death certificates are usually completed by hospital personnel present at the delivery. Death certificates are usually completed by hospital personnel, physicians, and funeral directors.

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[1] No marriage and divorce reports are included in the interstate exchange program for vital events. All marriage and divorce data are Minnesota occurrences.

Reported Induced Abortions

The Minnesota Abortions Surveillance is a statewide reporting system involving provider agencies throughout Minnesota. Follow-up to facilities known to perform abortion procedures has been conducted to enlist all possible sources of abortion data, yielding the present 25 data providers enrolled in the system. A "Report of Induced Abortion" form is completed by provider agency staff for each abortion performed. A sample copy of the report form is included in Appendix B, Figure 12, page 165.

Population

The methods for development of age and gender were revised in 1987 by the Minnesota Center for Health Statistics in order to produce 1985 population estimates. Population estimates for 1986 were produced using the same methodology and are included on pages 140 through 150 of this publication. The following procedures were used:

1) The most current Minnesota age/sex population estimates produced by the U.S. Bureau of the Census were obtained. (These age/sex estimates were done by the Census Bureau to fulfill contractual obligations with the National Cancer Institute.) At the time our estimates were devised, Census Bureau data for calendar year 1984 remained the latest available. Those data are aggregated by county, sex and five-year age groups through 84 years of age.

2) The proportion of the total for each age/sex group by sex was computed. These proportions were fitted to the reported proportions of the 1980 U.S. Census. The proportions most frequently fitted to the 1980 Census involved teenage and young adult cohorts.

3) Those proportions were applied to the total county population estimates which are published annually by the Office of the State Demographer within the State Planning Agency. This resulted in revised county five-year age group and gender totals. Any rounding errors were eliminated by adjusting the 85 and over age group. The resulting county totals were thus forced to match the 1986 totals published by the Office of the State Demographer.

4) Adjustments are again made in the age/sex estimates to reconcile the 65 and over population county estimates to equal the county Medicare enrollment. Excess or shortfalls in the 65 and over age cohort are distributed proportionately among the under 65 age chorts. County totals remain identical to the State Demographer's totals.

5) Census data from 1980 were used to compute proportions of age/gender groups for selected cities within their counties of location. Those calculated proportions were applied to the 1986 revised age/gender county estimates to produce 1986 city age/gender preliminary estimates. Further refinements were then made to adjust city totals to equal total city estimates published by the Office of the State Demographer.

Occupational Injuries and Illnesses

The basic source document for the Supplementary Data System (SDS) of occupational injuries and illnesses is the "First Report of Injury" submitted by employers to the Minnesota Department of Labor and Industry, Worker's Compensation Division. A sample copy of the "First Report of Injury" is included in Appendix B, Figure 13, page 166.

The Supplementary Data System covers all employees in the state who fall within the scope of the Worker's Compensation Act. This excludes railroads in interstate commerce, most farm operations, casual employment not in the usual course of trade or business, and household workers earning less than $500 per quarter. In particular, it should be noted that small farm employees (less than 11 employees) are exempt from the OSHA act including the reporting of fatalities and multiple hospitalizations and participation in the annual occupational survey. Farm employers whose only workers are members of the employers' immediate family or are neighbors are also exempt. Any work-related illnesses or injuries which cause a loss of three or more days of work are required to be reported.

C. DATA QUALITY

Vital Events

The quality of data presented in this report is directly related to the completeness and accuracy of the information contained on the certificates. The MDH maintains two major program operations related to improving the quality of information received on certificates in order to ensure that the information is as complete and accurate as possible.

The query program is a system used to contact hospital personnel, funeral directors, and/or physicians concerning incomplete or conflicting information. The follow-up contact is usually done by telephone and is based on both manual and computer editing procedures.

The field program attempts to improve certificate information by educating participants in the vital registration system, i.e., hospital personnel, funeral directors, physicians, coroners, and medical examiners of the uses and importance of vital statistics data. The field program completes this mission by conducting seminars with various associations and makes site visits when problems with registration relating to a particular event, area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Minnesota's coding of statistical data. NCHS has established a two percent upper limit for coding differences involving any one data item, with the exception of cause of death. A five percent limit is established for this item due to the complexity of the coding process.

The Minnesota Department of Health implemented multiple cause coding on death certificates for the final quarter of 1983. All factors contributing to the death which are mentioned on the death certificate are coded using the Ninth Revision of the International Classification of Diseases (ICD-9) and underlying cause is determined through a series of special computer programs--the Automated Classification of Medical Entities (ACME).

The ACME system provides not only traditional underlying cause statistics, but also multiple cause data which may be tailored for other indepth research and analysis. Planning is underway for future analyses and publication of multiple cause data.

In order to conform to the National Centers for Disease Control's changes in cause of death terminology regarding violent deaths, some changes in cause of death labels were incorporated into the 1984 death tables. Cause of death labels within Tables 38-41 and 44, which previously contained the term "accidents", were changed to "unintentional injury." This change only effects terminology as no change in actual ICD coding has occurred.

Another item to note is that all natality tables which include birth weight specific data were modified in 1983 to provide statistics for identification of live births under 2,500 grams. The tables affected are Tables 9, 10 and 36. This modification was necessary for compliance with national standards which define low birth weight as less than 2,500 grams.

The marriage dissolution report was initiated across all Minnesota counties in 1985 and contains numerous new data items. Item completeness in 1985 was poor as is often the case with new collection activity. Analysis of these data were initiated when the 1986 data year was completed. Item completeness for 1986 remained deficient with some items forty percent incomplete. This is in part due to a number of counties continuing to send lists (names, ages and dates of decree) rather than the individual report forms.

Caution is advised in interpretation of the detailed dissolution tables contained in this report due to these missing data. A short narrative pertaining to dissolutions precedes the dissolution tables

(Tables 49 through 55, pages 119 through 125) and explains the new tables and limitations of these data.

Reported Induced Abortions

The quality of data pertaining to induced abortions is dependent on the completeness and accuracy of the report forms submitted by provider facilities. A combination of computer and manual editing enables MCHS personnel to identify errors on records and take necessary corrective steps. Year-end reports are prepared for individual provider facilities to allow them to make comparisons with their own records and to report differences to MCHS. MCHS then studies the differences and makes necessary adjustments.

Changes have occurred in administrative record keeping by abortion providers. New records management systems have made it very difficult for some providers to match the "Report of Induced Abortion" forms to individual patient records due to lack of unique identifiers. These changes have created a greater margin for error in reporting since facilities are unable to easily locate individual records for correction of questionable reports.

In 1984 a revised reporting form was introduced. Changes were made in three data categories: contraceptive use, abortion method, and complications or failures. The changes were made in order to clarify data, simplify reporting, and reduce errors.

Prior to 1984 the "Report of Induced Abortion" form requested information on clients' reported contraceptive use. The five responses on the form were: "never used," "have used but discontinued use," "was using at conception" (method failure), "use status unknown," and "interrupted use" (intended to differentiate between human error or the choice not to contracept and method failures). Both the "interrupted use" and "method failure" response asked for further information on the type of contraception used as indicated by the client. For that reason, retrieval of data on "method failures" by type of contraception was not possible since "interrupted use" cannot be considered actual method failure.

In order to collect data on method failures only, the contraceptive use category was modified in 1984 to report use "at time of conception" only. Four responses are now offered: "unknown," "never used," "have used but not at conception," and "method use at conception" (method failure). Only the fourth response, "method failure" requires further action relative to type of contraceptive used. This restructuring of requested information clarifies the contraceptive method data reported.

In 1984, the list of contraceptive methods was also revised: oral contraceptives were categorized into combination pills and mini-pills;

the sponge, cervical cap, fertility awareness, and spermicidal jelly/cream (alone) were added; and the "none" category was eliminated.

Also in 1984, response choices in the Abortion Method category were rearranged and the names of the methods updated. The "combination" response was eliminated and replaced with "other (please specify)______." These changes allow for easier correction and verification of questionable responses.

The Complications or Failures category was restructured into minor (did not require hospitalization) and major (did require hospitalization) with treatment options offered for each as a means of verifying coding intentions. The complications response choices remained unchanged, with two responses (heavy bleeding/hemorrhage and infection) listed under both "minor" and "major" complications. These changes and the differences between minor and major complications were determined with the assistance of provider agencies' staff.

Population

The 1986 population estimates used in this publication are the only known source of population data by age group, sex and county available at the time of publication of this report. In 1980, the census data were used to estimate the state population. These data were considered to be highly accurate due to various checking and follow-up procedures. The 1981 through 1986 estimates are postcensal estimates, and a modified version of the cohort-component method was used in their production. The cohort-component method is an established method of estimating population and is normally very accurate if birth, death, census and migration data are of good quality. Although these estimates are not as accurate as an actual census, they are still very useful estimators of the actual population of Minnesota. All rates in this publication have been calculated using these 1986 population estimates as a denominator.

Since the method for producing estimates was modified after the 1984 publication, age/sex estimates for some counties may show some marked changes between 1984 and 1986. Therefore, caution is advised in interpreting changes in age-specific rates, since the differences may be artifacts rather than meaningful observations.

Occupational Injuries and Illnesses

Nature of Injury or Illness, Source of Injury or Illness, Type of Accident and Part of Body Affected are coded according to ANSIZ 16.2--1962 "Method of Recording Basic Facts Relating to the Nature and Occurrence of Work Injuries." Occupations are coded using Census Bureau Codes. Industries are coded using four digit Standard Industry Classification Codes.

The quality of occupational injuries and illnesses data is related to the completeness and the accuracy of coding the "First Report of Injury." Extensive input editing by computer edit programs is performed on basic codes. Also, periodic reviews by Regional Bureau of Labor Statistics personnel are performed to audit the coding function.

D. GEOGRAPHIC ALLOCATION

Vital Events

Vital events can be classified geographically in two ways. The first way is by place of occurrence, i.e., the actual state, county and minor civil division in which the birth or death took place. The second and more customary way is by place of residence, i.e, the state, county and minor civil division stated to be the usual residence of the decedent in the case of deaths or of the mother in the case of a newborn. Fetal deaths and infant deaths, in cases where the child was never discharged from the hospital, are classified to the residence of the mother.

While occurrence statistics are accurate and have both administrative value and some statistical importance, residence statistics are the more useful tool when constructing health indices for planning and evaluation purposes. The statistics provided in this report are residence data unless otherwise stated.

Allocation of vital events by place of residence is sometimes difficult, because classification depends entirely on the statement of the usual place of residence furnished by the informant at the time the original certificate is completed. For various reasons, this statement may be incorrect or incomplete. For example, mailing addresses very often differ from the actual geographic residence.

Where the mailing address is a rural delivery number or when an unincorporated place is given as the place of residence, it is seldom possible to allocate the event to a specific township or the correct minor civil division, if this information is not supplied. How often incorrect information on residence is recorded is not known, but it is generally due to lack of information concerning the exact location of residence or misunderstanding of the question on the part of the informant.

This problem is applicable generally only to minor civil division level data. Resident counts for the state as a whole are, for all practical purposes, very accurate. County resident figures are substantially correct and can be used with a high degree of confidence.

Each of Minnesota's 87 counties is classified into one of eight health districts. Some data presented in this report are aggregated by MDH health district. Appendix C is a map showing the county distribution of the health districts in Minnesota.

Reported Induced Abortions

Data on induced abortions are collected and coded to the county and minor civil division of residence of the recipient. The quality of geographic allocation is highly suspect due to total dependence on the patient responses at the time of the procedure.

This report does not include county level tables due to the chance of inadvertent disclosure of individual identity. However, a map illustrating county totals in ranges is included as Figure 7, page 67.

Population

The 1986 population estimates by age group and sex are available at the state and county level, as well as estimates for Minneapolis, St. Paul and Duluth. Estimates of the 1986 population of every city and township outside the seven-county Twin Cities Metropolitan Area were created by the Office of the State Demographer. These estimates, however, are not broken down by age group or sex. Estimates of the population of cities and townships inside the seven-county Twin Cities Metropolitan Area were created by the Metropolitan Council.

E. DEFINITIONS OF RATES

Absolute counts of health-related events do not readily lend themselves to analysis and comparison between years and between various geographic areas because of population differences and the small number of reported events. These demographic differences include total number, age and sex distributions, and ethnic or racial differentials. In order to assess the health status of a particular population at a specified time, the absolute number of events is converted to a relative number such as a probability of living or dying, a rate, a ratio, or an index. This conversion is made by relating the crude number of events to the living population at risk in a particular area at a specified time.

The following types of rates are used in this report:

ABORTION RATE: The number of induced abortions per 1,000 females in the population of age 15 through 44 years.

AGE/CAUSE SPECIFIC DEATH RATE: Number of deaths from a specified cause within a specified age group per 100,000 population in the same age group.

AGE/SEX ADJUSTED DEATH RATE: Total rates for counties and cities are adjusted for age and sex on the basis of the state population.

AGE-SPECIFIC PREGNANCY RATE: Number of live births plus fetal deaths plus induced abortions to women in a specified age group per 1,000 females in the population comprising the same specified age group.

CRUDE BIRTH RATE: Number of live births per 1,000 population.

CRUDE DEATH RATE: Number of deaths per 1,000 population.

FERTILITY RATE: Total number of live births per 1,000 females in the population of age 15 through 44 years.

INFANT DEATH RATE: Deaths under one year of age per 1,000 live births.

NEONATAL DEATH RATE: Number of infants dying under 28 days of age per 1,000 live births.

OCCUPATIONAL INJURY AND ILLNESS RATE: Number of reported injuries or illnesses in a given industrial category per 1,000 workers in the same industrial category. The state rate is calculated excluding agricultural industry categories.

PERINATAL DEATH RATE: Number of fetal deaths of 20 weeks or more gestation plus the number of neonatal deaths (deaths to infants under 28 days of age) per 1,000 live births.

PREGNANCY RATE: Number of live births plus the number of fetal deaths plus the number of induced abortions per 1,000 females in the population of age 15 through 44 years.

SEX ADJUSTED-AGE SPECIFIC DEATH RATE: Specific age group rates for counties and cities have been adjusted for sex on the basis of the state population for the specific age group.

Overview of the 1986 Vital Statistics

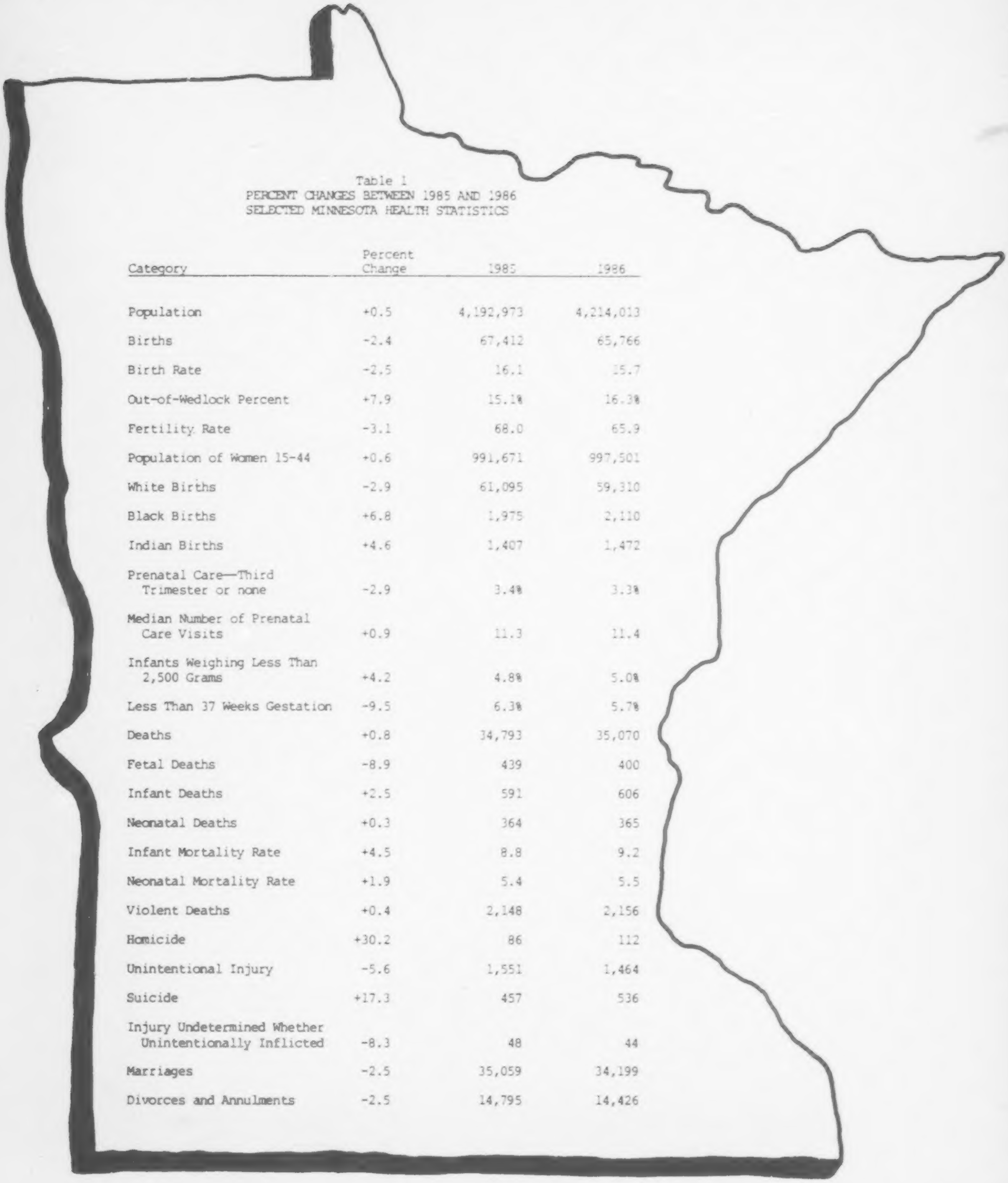

Table 1
PERCENT CHANGES BETWEEN 1985 AND 1986
SELECTED MINNESOTA HEALTH STATISTICS

Category	Percent Change	1985	1986
Population	+0.5	4,192,973	4,214,013
Births	-2.4	67,412	65,766
Birth Rate	-2.5	16.1	15.7
Out-of-Wedlock Percent	+7.9	15.1%	16.3%
Fertility Rate	-3.1	68.0	65.9
Population of Women 15-44	+0.6	991,671	997,501
White Births	-2.9	61,095	59,310
Black Births	+6.8	1,975	2,110
Indian Births	+4.6	1,407	1,472
Prenatal Care—Third Trimester or none	-2.9	3.4%	3.3%
Median Number of Prenatal Care Visits	+0.9	11.3	11.4
Infants Weighing Less Than 2,500 Grams	+4.2	4.8%	5.0%
Less Than 37 Weeks Gestation	-9.5	6.3%	5.7%
Deaths	+0.8	34,793	35,070
Fetal Deaths	-8.9	439	400
Infant Deaths	+2.5	591	606
Neonatal Deaths	+0.3	364	365
Infant Mortality Rate	+4.5	8.8	9.2
Neonatal Mortality Rate	+1.9	5.4	5.5
Violent Deaths	+0.4	2,148	2,156
Homicide	+30.2	86	112
Unintentional Injury	-5.6	1,551	1,464
Suicide	+17.3	457	536
Injury Undetermined Whether Unintentionally Inflicted	-8.3	48	44
Marriages	-2.5	35,059	34,199
Divorces and Annulments	-2.5	14,795	14,426

Table 2
RESIDENT LIVE BIRTHS, CRUDE BIRTH RATES*, AND FERTILITY RATES**,
MINNESOTA AND UNITED STATES, 1940, 1945, 1950, 1955, 1960, 1965-1986

	Live Births		Crude Birth Rate*		Fertility Rate**	
Year	Minnesota	United States	Minnesota	United States	Minnesota	United States
1940	52,915	2,559,000	19.0	19.4	81.0	79.9
1945	54,656	2,858,000	20.9	20.4	85.1	85.9
1950	75,078	3,632,000	25.2	24.1	119.1	106.2
1955	81,532	4,097,000	25.7	25.0	130.1	118.3
1960	87,523	4,257,850	25.6	23.7	136.0	118.0
1965	70,810	3,760,358	19.7	19.4	105.9	96.3
1966	66,781	3,606,274	18.5	18.4	96.0	90.8
1967	64,532	3,520,959	17.6	17.8	96.8	87.2
1968	64,759	3,501,564	17.5	17.6	93.2	85.2
1969	65,961	3,600,206	17.6	17.9	90.5	86.1
1970	68,449	3,731,386	18.0	18.4	88.4	87.9
1971	62,498	3,555,970	16.2	17.2	78.2	81.6
1972	56,395	3,258,411	14.5	15.6	69.6	73.1
1973	53,783	3,136,965	13.8	14.8	65.4	68.8
1974	55,753	3,159,958	14.2	14.8	66.8	67.8
1975	56,463	3,144,198	14.4	14.6	65.4	66.0
1976	56,599	3,167,788	14.3	14.6	63.8	65.0
1977	60,284	3,326,632	15.2	15.1	66.8	66.8
1978	61,977	3,333,279	15.5	15.0	67.1	65.5
1979	65,325	3,494,398	16.1	15.6	69.0	67.2
1980	67,843	3,612,258	16.6	15.9	70.8	68.4
1981	68,652	3,629,238	16.7	15.8	71.0	67.4
1982	68,512	3,680,537	16.6	15.9	70.1	67.3
1983	65,559	3,638,933	15.8	15.5	66.8	65.8
1984	66,715	3,669,141	16.0	15.5	67.9	65.4
1985	67,412	3,760,561	16.1	15.8	68.0	66.2
1986	65,766	3,756,547	15.7	15.6	65.9	65.4

* Live Births per 1,000 Population
** Live Births per 1,000 Female Population of Ages 15-44

Table 3
NUMBERS AND RATES OF RESIDENT LIVE BIRTHS, DEATHS, AND MATERNAL DEATHS
MINNESOTA AND UNITED STATES,
1940, 1945, 1950, 1955, 1960, 1965-1986

	Live Births				Deaths				Maternal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
Year	Number	Rate*	Number	Rate*	Number	Rate**	Number	Rate**	Number	Rate***	Number	Rate***
1940	52,915	19.0	2,559,000	19.4	26,354	9.4	1,417,269	10.8	115	217.3	8,876	376.0
1945	54,656	20.9	2,858,000	20.4	26,763	10.2	1,401,719	10.6	75	137.2	5,668	207.2
1950	75,078	25.2	3,632,000	24.1	27,897	9.4	1,452,454	9.6	43	57.3	2,960	83.3
1955	81,532	25.7	4,097,000	25.0	28,574	9.0	1,528,717	9.3	27	33.1	1,901	47.0
1960	87,523	25.6	4,257,850	23.7	31,596	9.3	1,711,982	9.5	13	14.9	1,579	37.1
1965	70,810	19.7	3,760,358	19.4	32,477	9.0	1,828,136	9.4	12	16.8	1,189	31.6
1966	66,781	18.5	3,606,274	18.4	33,222	9.2	1,863,149	9.5	12	18.0	1,049	29.1
1967	64,532	17.6	3,520,959	17.8	32,917	9.0	1,851,323	9.4	6	9.3	987	28.0
1968	64,759	17.5	3,501,564	17.6	33,890	9.2	1,930,082	9.7	5	7.7	859	24.5
1969	65,961	17.6	3,600,206	17.9	33,791	9.0	1,921,990	9.5	11	16.7	801	22.2
1970	68,449	18.0	3,731,386	18.4	33,919	8.9	1,921,031	9.5	9	13.1	803	21.5
1971	62,498	16.2	3,555,970	17.2	33,871	8.8	1,927,542	9.3	14	22.4	668	18.8
1972	56,395	14.5	3,258,411	15.6	34,565	8.9	1,963,944	9.4	4	7.1	612	18.8
1973	53,783	13.8	3,136,965	14.8	33,899	8.7	1,973,003	9.3	4	7.4	477	15.2
1974	55,753	14.2	3,159,958	14.8	33,501	8.6	1,934,388	9.1	4	7.2	462	14.6
1975	56,463	14.4	3,144,198	14.6	32,686	8.3	1,892,879	8.8	3	5.3	403	12.8
1976	56,599	14.3	3,167,788	14.6	32,798	8.3	1,909,440	8.8	2	3.5	390	12.3
1977	60,284	15.2	3,326,632	15.1	32,281	8.1	1,899,597	8.6	4	6.6	373	11.2
1978	61,977	15.5	3,333,279	15.0	33,312	8.3	1,927,788	8.7	6	9.7	321	9.6
1979	65,325	16.1	3,494,398	15.6	32,082	7.9	1,913,841	8.5	3	4.6	336	9.6
1980	67,843	16.6	3,612,258	15.9	33,415	8.2	1,989,841	8.8	4	5.9	334	9.2
1981	68,652	16.7	3,629,238	15.8	32,815	8.0	1,977,981	8.6	2	2.9	309	8.5
1982	68,512	16.6	3,680,537	15.9	32,976	8.0	1,974,797	8.5	3	4.4	292	7.9
1983	65,559	15.8	3,638,933	15.5	33,902	8.2	2,019,201	8.6	2	3.1	290	8.0
1984	66,715	16.0	3,669,141	15.5	33,746	8.1	2,039,369	8.6	5	7.5	285	7.8
1985	67,412	16.1	3,760,561	15.8	34,793	8.3	2,086,440	8.7	3	4.5	295	7.8
1986	65,766	15.7	3,756,547	15.6	35,070	8.3	2,099,000+	8.7+	1	1.5	250+	6.7+

* Live Births per 1,000 Population
** Deaths per 1,000 Population
*** Maternal Deaths per 100,000 Live Births
+ Provisional Data

Table 4
NUMBERS AND RATES OF INFANT DEATHS, NEONATAL DEATHS, AND FETAL DEATHS
MINNESOTA AND UNITED STATES,
1940, 1945, 1950, 1955, 1960, 1965-1986

	Infant Deaths				Neonatal Deaths				Fetal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
Year	Number	Rate*	Number	Rate*	Number	Rate**	Number	Rate**	Number	Rate***	Number	Rate***
1940	1,772	33.3	110,984	47.0	1,246+	23.4	67,866	28.8	1,144+	21.5	73,802	31.3
1945	1,698	31.1	104,684	38.3	1,226+	22.6	66,593	24.3	1,141	20.9	65,513	23.9
1950	1,876	25.0	103,825	29.2	1,430	19.0	72,855	20.5	1,208	16.1	68,262	19.2
1955	1,779	21.8	106,903	26.4	1,386	17.0	77,351	19.1	1,173	14.4	69,153	17.1
1960	1,881	21.5	110,873	26.0	1,397	16.0	79,733	18.7	1,050	12.1	68,480	16.1
1965	1,432	20.2	92,866	24.7	1,075	15.2	66,419	17.7	921	13.0	60,859	16.2
1966	1,299	19.5	85,516	23.7	987	14.8	61,941	17.2	819	12.3	56,637	15.7
1967	1,288	20.0	79,028	22.4	980	15.2	58,127	16.5	712	11.0	54,934	15.6
1968	1,192	18.4	76,263	21.8	894	13.8	56,456	16.1	740	11.4	55,293	15.8
1969	1,110	16.8	75,073	20.9	876	13.3	56,085	15.6	681	10.3	50,749	14.1
1970	1,203	17.6	74,667	20.0	944	13.8	56,279	15.1	705	10.3	52,961	14.2
1971	1,081	17.3	67,981	19.1	829	13.3	50,496	14.2	594	9.5	47,818	13.4
1972	946	16.8	60,182	18.5	704	12.5	44,432	13.6	533	9.5	41,380	12.7
1973	831	15.5	55,581	17.7	630	11.7	40,664	13.0	481	8.9	38,309	12.2
1974	809	14.5	52,776	16.7	598	10.7	38,738	12.3	523	9.4	36,281	11.5
1975	771	13.7	50,525	16.1	582	10.3	36,416	11.6	479	8.5	33,796	10.7
1976	789	13.9	48,265	15.2	565	10.9	34,587	10.9	487	8.6	33,111	10.5
1977	664	11.0	46,975	14.1	478	7.9	32,860	9.9	471	7.8	33,053	9.9
1978	739	11.9	45,945	13.8	513	8.3	31,618	9.5	468	7.6	32,301	9.7
1979	700	10.7	45,665	13.1	469	7.2	30,980	8.9	445	6.8	32,969	9.4
1980	679	10.0	45,526	12.6	421	6.2	30,618	8.5	449	6.6	33,353	9.2
1981	701	10.2	43,305	11.9	448	6.5	29,121	8.0	461	6.7	32,596	9.0
1982	645	9.4	42,401	11.5	402	5.9	28,335	7.7	429	6.3	NA	NA
1983	645	9.8	40,627	11.2	410	6.3	26,507	7.3	457	7.0	NA	NA
1984	590	8.8	39,580	10.8	362	5.4	25,691	7.0	465	7.0	NA	NA
1985	591	8.8	40,030	10.6	364	5.4	26,179	7.0	439	6.5	NA	NA
1986	606	9.2	38,600@	10.4@	365	5.5	NA	6.7@	400	6.1	NA	NA

* Infant Deaths per 1,000 Live Births
** Neonatal Deaths per 1,000 Live Births
*** Fetal Deaths per 1,000 Live Births
+ Place of Occurrence
@ Provisional Data

Table 5
MARRIAGES AND DIVORCES AND ANNULMENTS, NUMBERS AND RATES*
MINNESOTA AND UNITED STATES, 1940, 1945, 1950, 1955, 1960, 1965-1986

	Marriages				Divorces			
	Minnesota		United States		Minnesota		United States	
	#	Rate*	#	Rate*	#	Rate**	#	Rate**
1940	27,419	9.8	1,595,879	12.1	2,957	1.1	264,000	2.0
1945	26,195	10.0	1,612,992	12.2	5,326	2.0	485,000	3.5
1950	30,991	10.4	1,667,231	11.1	4,049	1.4	385,000	2.6
1955	24,854	7.8	1,531,000	9.3	3,757	1.2	377,000	2.3
1960	23,596	6.9	1,523,000	8.5	4,175	1.2	393,000	2.2
1965	26,472	7.4	1,800,000	9.3	4,848	1.3	479,000	2.5
1966	26,566	7.3	1,857,000	9.5	5,457	1.5	499,000	2.5
1967	28,163	7.7	1,927,000	9.7	6,148	1.7	523,000	2.6
1968	30,671	8.3	2,069,000	10.4	6,646	1.8	584,000	2.9
1969	31,971	8.5	2,145,000	10.6	7,496	2.0	639,000	3.2
1970	31,280	8.2	2,158,802	10.6	8,221	2.2	708,000	3.5
1971	31,196	8.1	2,190,481	10.6	9,494	2.5	773,000	3.7
1972	32,227	8.3	2,282,154	10.9	10,214	2.6	845,000	4.0
1973	32,996	8.5	2,284,108	10.8	11,113	2.9	915,000	4.3
1974	33,547	8.6	2,229,667	10.5	12,204	3.1	977,000	4.6
1975	32,237	8.2	2,152,662	10.0	13,147	3.3	1,036,000	4.8
1976	32,027	8.1	2,154,807	9.9	13,764	3.5	1,083,000	5.0
1977	33,040	8.3	2,178,367	9.9	13,852	3.5	1,091,000	5.0
1978	33,480	8.4	2,282,272	10.3	14,183	3.5	1,130,000	5.1
1979	37,020	9.1	2,331,337	10.4	14,542	3.6	1,181,000	5.3
1980	37,625	9.2	2,390,252	10.6	15,092	3.7	1,189,000	5.2
1981	37,638	9.2	2,422,145	10.6	16,329	4.0	1,213,000	5.3
1982	37,409	9.1	2,456,278	10.6	15,177	3.7	1,170,000	5.0
1983	36,259	8.7	2,445,604	10.5	14,789	3.6	1,158,000	4.9
1984	36,223	8.7	2,477,192***	10.5	14,758	3.5	1,169,000	5.0
1985	35,059	8.4	2,412,625	10.1	14,795	3.5	1,190,000	5.0
1986	34,199	8.1	2,400,000***	10.0***	14,426	3.4	1,159,000***	4.8***

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* Marriages per 1,000 Population
** Divorces and Annulments per 1,000 Population
*** Provisional Data

Table 6
BIRTHS, DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, DIVORCES AND ANNULMENTS BY MONTH
MINNESOTA OCCURRENCES, 1986

	Births	Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces and Annulments
Total	65,790	35,245	630	404	34,199	14,426
January	5,285	3,273	52	35	1,014	1,178
February	5,014	2,932	57	22	1,502	986
March	5,605	3,090	59	30	1,400	1,178
April	5,643	2,764	50	30	2,591	1,376
May	5,893	2,993	54	35	3,562	1,173
June	5,606	2,733	60	31	4,652	1,231
July	5,805	2,841	45	48	3,008	1,129
August	5,763	2,653	49	37	4,975	1,229
September	5,767	2,807	42	34	4,108	1,251
October	5,409	2,997	51	26	3,282	1,275
November	4,854	3,060	60	37	2,184	1,025
December	5,146	3,102	51	39	1,921	1,395

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Afton	18	-	8	-	-
Albert Lea	236	2	202	2	1
Alexandria	110	2	174	4	3
Andover	173	-	23	3	2
Anoka	389	1	132	1	1
Apple Valley	486	2	72	3	1
Arden Hills	125	-	81	3	3
Aurora	28	-	29	-	-
Austin	269	1	290	-	-
Baxter	38	1	13	-	-
Bayport	22	1	17	-	-
Belle Plaine	61	-	42	1	1
Bemidji	201	2	124	4	1
Benson	40	-	59	-	-
Blaine	684	3	75	5	4
Bloomington	1,062	7	533	7	6
Blue Earth	47	-	62	-	-
Brainerd	268	1	175	3	-
Breckenridge	49	-	41	-	-
Brooklyn Center	436	-	202	6	3
Brooklyn Park	1,118	9	150	8	3
Buffalo	112	-	80	-	-
Burnsville	675	1	111	8	6
Caledonia	55	-	36	-	-
Cambridge	64	-	81	2	1
Cannon Falls	51	1	55	2	2
Champlin	294	-	29	-	-
Chanhassen	126	-	25	1	1
Chaska	221	1	48	1	1
Chisholm	62	1	71	-	-
Circle Pines	182	-	24	-	-
Cloquet	158	-	131	2	2
Columbia Heights	269	1	177	4	4
Coon Rapids	806	1	159	3	-
Corcoran	79	-	16	1	1
Cottage Grove	327	2	49	3	2
Crookston	150	1	109	3	2
Crystal	390	-	172	-	-
Dayton	54	-	15	-	-
Deephaven	45	-	17	-	-
Detroit Lakes	114	1	131	1	1
Dilworth	36	-	16	-	-
Duluth	1,258	14	1,147	13	8
Eagan	786	2	60	5	4
East Bethel	76	1	10	-	-
East Grand Forks	184	2	85	3	-
Eden Prairie	576	1	74	-	-
Edina	421	2	406	2	2
Elk River	150	-	70	2	1
Ely	44	-	96	2	2

Table 7

LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Eveleth	53	-	75	1	-
Excelsior	72	-	39	1	-
Fairmont	159	-	129	-	-
Falcon Heights	117	-	25	1	-
Faribault	279	2	201	1	1
Farmington	154	1	35	1	-
Fergus Falls	184	1	188	2	1
Forest Lake	164	2	83	2	1
Fridley	439	2	146	4	3
Gilbert	26	-	29	1	1
Glencoe	85	-	58	1	1
Glenwood	26	-	76	-	-
Golden Valley	243	1	177	2	2
Goodview	8	-	13	-	-
Grand Rapids	119	1	113	1	1
Granite Falls	46	1	44	-	-
Ham Lake	126	-	20	1	-
Hastings	293	2	123	4	2
Hermantown	14	-	18	-	-
Hibbing	242	-	202	1	-
Hopkins	245	-	190	1	-
Hoyt Lakes	17	-	17	-	-
Hugo	75	-	14	1	-
Hutchinson	204	2	100	2	1
Independence	13	-	8	-	-
International Falls	98	1	76	1	-
Inver Grove Heights	366	1	80	4	2
Jackson	61	-	70	2	2
Jordan	86	1	23	-	-
Kasson	84	-	22	-	-
La Crescent	70	1	37	-	-
Lake City	51	1	53	-	-
Lake Elmo	98	-	27	4	2
Lakeville	284	3	48	2	1
Le Sueur	57	1	34	-	-
Lino Lakes	119	1	20	3	1
Litchfield	90	-	94	1	1
Little Canada	136	2	38	-	-
Little Falls	117	1	122	3	1
Long Prairie	47	-	52	-	-
Luverne	46	-	61	-	-
Mahtomedi	79	1	22	1	-
Mankato	410	4	232	6	2
Maple Grove	649	4	60	3	2
Maplewood	459	4	216	2	1
Marshall	166	1	79	-	-
Medina	36	-	10	1	1
Mendota Heights	81	1	36	-	-
Minneapolis	6,564	35	3,916	81	45
Minnetonka	580	4	200	4	2

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Minnetrista	19	-	12	-	-
Montevideo	72	-	98	1	-
Monticello	136	-	36	1	-
Moorhead	413	6	241	7	5
Mora	34	-	53	1	1
Morris	58	-	58	2	1
Mound	182	-	50	3	1
Mounds View	212	2	43	2	1
Mountain Iron	28	-	26	-	-
New Brighton	310	2	155	3	2
New Hope	296	2	279	2	-
New Prague	57	-	47	-	-
New Ulm	197	4	116	3	2
Newport	69	1	20	1	1
North Mankato	181	-	54	2	1
North Oaks	35	-	9	1	-
North St. Paul	200	-	81	1	-
Northfield	155	-	100	1	1
Oak Park Heights	8	-	12	-	-
Oakdale	237	2	43	3	3
Olivia	43	-	29	-	-
Orono	38	-	20	-	-
Ortonville	23	-	36	-	-
Osseo	57	-	47	2	-
Owatonna	281	2	167	2	1
Park Rapids	51	-	98	1	-
Pipestone	62	1	76	-	-
Plymouth	690	6	135	8	7
Princeton	70	-	47	-	-
Prior Lake	218	2	45	-	-
Proctor	33	1	37	-	-
Ramsey	149	-	11	-	-
Red Wing	222	1	166	2	1
Redwood Falls	67	-	62	1	1
Richfield	498	4	273	3	1
Robbinsdale	235	-	172	5	3
Rochester	1,282	4	450	8	7
Rosemount	135	-	30	-	-
Roseville	381	3	279	2	1
Saint Anthony	74	-	64	1	1
Saint Cloud	737	4	322	8	7
Saint James	67	-	62	-	-
Saint Joseph	40	-	11	-	-
Saint Louis Park	646	4	424	4	3
Saint Paul	5,064	36	2,732	61	41
Saint Paul Park	87	-	20	1	1
Saint Peter	118	-	98	-	-
Sartell	87	1	40	3	2
Sauk Centre	61	1	34	-	-
Sauk Rapids	152	1	73	2	1

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1986 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Savage	194	1	16	1	1
Shakopee	219	-	59	2	1
Shoreview	405	2	76	6	6
Shorewood	50	-	8	-	-
Silver Bay	33	-	15	-	-
Sleepy Eye	55	-	45	-	-
South International Falls	19	-	12	-	-
South St. Paul	317	2	178	3	3
Spring Lake Park	112	-	18	1	1
Spring Valley	40	-	39	3	3
Staples	52	-	51	1	1
Stewartville	76	-	38	1	1
Stillwater	235	2	152	-	-
Thief River Falls	131	-	135	1	-
Two Harbors	56	-	75	1	1
Vadnais Heights	192	1	30	2	1
Virginia	120	-	161	1	-
Waconia	42	1	46	-	-
Wadena	74	-	57	1	1
Waite Park	91	1	34	-	-
Waseca	137	2	78	1	-
Wayzata	102	-	40	1	1
Wells	38	-	36	1	1
West St. Paul	244	2	222	1	1
White Bear Lake	492	3	171	4	1
Willmar	253	4	175	3	2
Windom	61	-	62	1	1
Winona	342	3	267	2	2
Woodbury	240	3	83	3	3
Worthington	140	2	106	-	-

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* Municipalities with population of 2,500 or more as of the 1980 Census.

Live Births

Every day in 1986, residents of Minnesota experienced an average of:

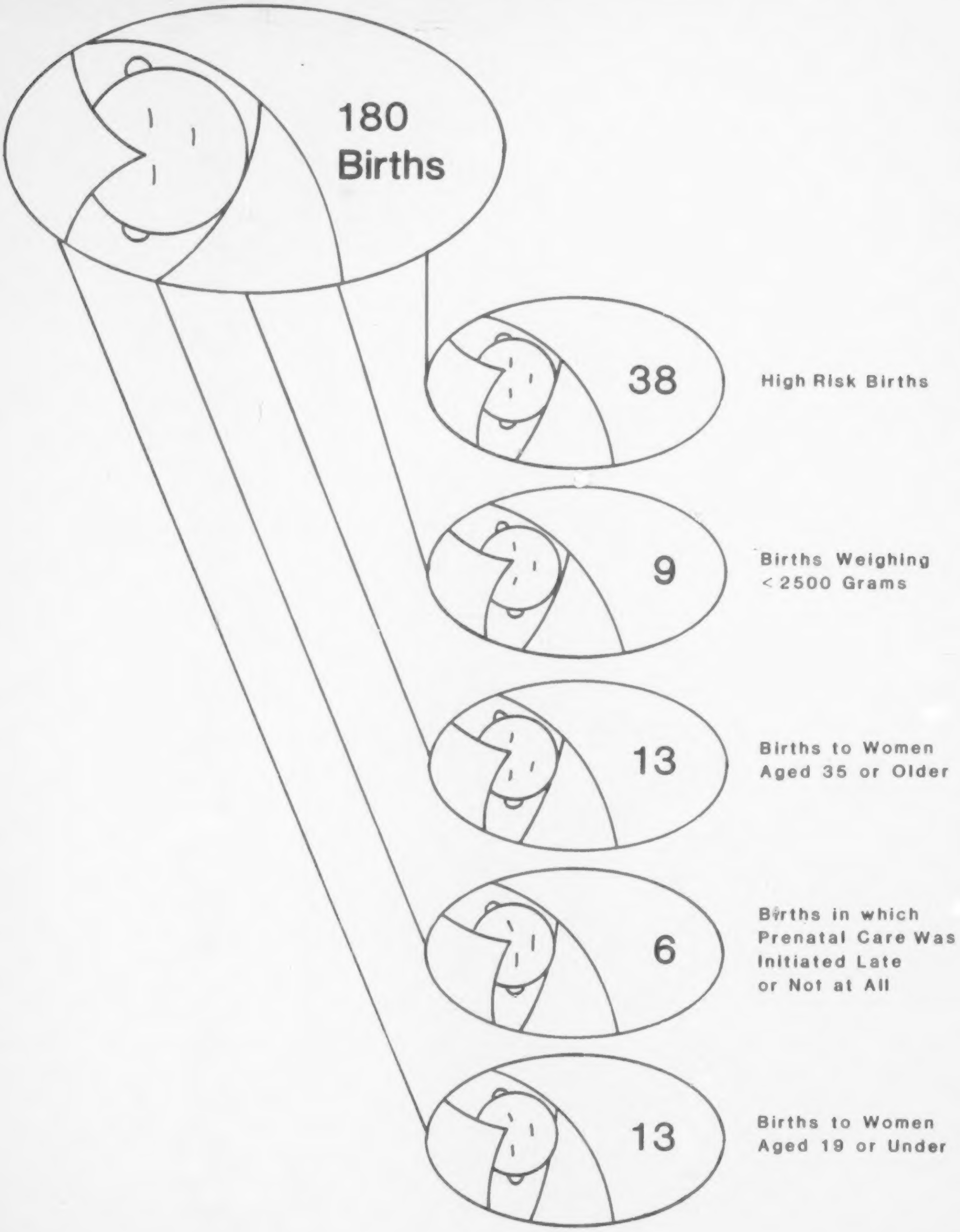
180 Births
38
High Risk Births
9
Births Weighing < 2500 Grams
13
Births to Women Aged 35 or Older
6
Births in which Prenatal Care Was Initiated Late or Not at All
13
Births to Women Aged 19 or Under

Table 8
LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1986

	Births Occurring in County				Resident Births		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	65,790	45,598	18,307	1,885	18,307	1,861	65,766
Aitkin	88	79	9	-	75	1	155
Anoka	3,980	2,423	1,555	2	1,439	8	3,870
Becker	410	324	85	1	64	58	446
Beltrami	867	594	272	1	17	3	614
Benton	1	1	-	-	529	-	530
Big Stone	158	72	28	58	11	4	87
Blue Earth	1,139	656	477	6	60	1	717
Brown	532	372	159	1	39	-	411
Carlton	272	175	97	-	181	1	357
Carver	734	292	441	1	421	-	713
Cass	1	1	-	-	328	4	333
Chippewa	168	106	58	4	81	-	187
Chisago	240	166	70	4	237	44	447
Clay	244	171	34	39	4	484	659
Clearwater	37	35	1	1	102	1	138
Cook	31	30	1	-	15	-	45
Cottonwood	135	103	32	-	50	8	161
Crow Wing	777	573	204	-	36	1	610
Dakota	2,279	1,772	459	48	2,224	6	4,002
Dodge	2	2	-	-	258	1	261
Douglas	513	366	144	3	37	1	404
Faribault	155	116	16	23	112	2	230
Fillmore	13	13	-	-	200	87	300
Freeborn	519	369	107	43	54	5	428
Goodhue	575	383	57	135	189	2	574
Grant	35	28	5	2	50	-	78
Hennepin	19,643	14,481	5,063	99	1,531	30	16,042
Minneapolis	10,860	4,706	6,082	72	1,838	20	6,564
Houston	44	40	1	3	9	227	276
Hubbard	228	125	102	1	61	8	194
Isanti	450	217	232	1	146	-	363
Itasca	525	468	55	2	93	-	561
Jackson	66	59	6	1	98	17	174
Kanabec	228	116	111	1	71	1	188
Kandiyohi	801	523	278	-	35	1	559
Kittson	85	58	24	3	19	26	103
Koochiching	141	137	3	1	28	7	172
Lac Qui Parle	81	74	3	4	52	3	129
Lake	96	78	15	3	58	1	137
Lake of the Woods	68	52	13	3	10	1	63
Le Sueur	66	51	15	-	284	1	336
Lincoln	81	40	27	14	26	8	74
Lyon	382	303	79	-	41	7	351
McLeod	576	402	174	-	132	-	534
Mahnomen	24	19	5	-	47	8	74
Marshall	32	29	3	-	62	47	138
Martin	355	285	27	43	19	4	308
Meeker	136	108	28	-	206	-	314
Mille Lacs	387	226	160	1	69	-	295
Morrison	431	362	66	3	118	-	480
Mower	465	376	75	14	98	5	479

Table 8

LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1986 (CONT.)

	Births Occurring in County				Resident Births		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Murray	54	49	4	1	83	6	138
Nicollet	121	77	43	1	334	-	411
Nobles	382	204	158	20	36	33	273
Norman	13	12	1	-	32	56	100
Olmsted	2,680	1,717	906	57	9	1	1,727
Otter Tail	636	542	88	6	143	33	718
Pennington	313	175	138	-	6	19	200
Pine	29	29	-	-	254	9	292
Pipestone	138	113	20	5	23	37	173
Polk	264	209	53	2	25	284	518
Pope	106	85	21	-	64	2	151
Ramsey	9,601	6,159	3,204	238	2,036	14	8,209
St. Paul	8,425	3,890	4,313	222	1,167	7	5,064
Red Lake	1	1	-	-	56	6	63
Redwood	183	148	35	-	111	-	259
Renville	125	111	8	6	138	-	249
Rice	622	513	109	-	161	1	675
Rock	152	95	47	10	5	33	133
Roseau	193	172	15	6	50	13	235
St. Louis	3,192	2,437	363	392	49	7	2,493
Duluth	2,266	1,243	632	391	11	4	1,258
Scott	951	487	464	-	477	-	964
Sherburne	7	7	-	-	557	-	564
Sibley	69	62	7	-	132	-	194
Stearns	2,597	1,665	931	1	152	5	1,822
Steele	347	297	49	1	145	1	443
Stevens	145	121	24	-	17	3	141
Swift	85	77	8	-	59	-	136
Todd	195	142	52	1	237	2	381
Traverse	73	40	13	20	31	8	79
Wabasha	199	130	22	47	167	2	299
Wadena	370	159	210	1	64	5	228
Waseca	186	153	33	-	101	-	254
Washington	655	358	146	151	1,560	18	1,936
Watonwan	154	129	25	-	47	1	177
Wilkin	365	75	15	275	11	10	96
Winona	541	431	43	67	104	123	658
Wright	583	472	110	1	664	3	1,139
Yellow Medicine	167	94	66	7	41	2	137
Unknown	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1986

	State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
Live Births	65,766	155	3,870	446	614	530	87	717
Fertility Rate	65.9	65.0	66.0	72.2	79.2	79.2	66.8	51.4
Birth Rate	15.6	11.5	17.7	14.3	18.2	19.3	11.2	13.6
Sex: Male	33,630	83	1,964	235	320	273	39	355
Female	32,136	72	1,906	211	294	257	48	362
Out-of-Wedlock, Percent	16.3	23.2	13.0	21.1	34.4	12.5	6.9	13.5
Race: White	59,310	148	3,184	383	422	521	84	701
Black	2,110	1	11	-	1	4	-	5
Indian	1,472	6	19	62	190	1	2	1
Live Birth Order								
Median	2.3	2.4	2.2	2.6	2.4	2.4	2.6	2.4
% 5th or over	3.6	5.8	1.7	8.5	5.2	4.3	2.3	4.6
Prematurity, Percent								
Less than 37 weeks	5.7	6.5	2.6	7.0	6.8	4.3	5.7	5.9
Less than 2,500 grams	5.0	2.6	4.1	5.2	3.9	3.4	3.4	4.7
Plurality:								
Single	64,398	153	3,811	438	606	520	87	709
Twin	1,318	2	59	8	8	10	-	8
Triplet	45	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.5	6.5	2.2	3.6	6.4	2.1	1.1	1.3
18-19	4.8	6.5	5.1	8.7	7.5	5.5	5.7	4.2
40 and over	.8	1.9	.5	.7	.2	.6	2.3	1.0
Mother's Education, Percent								
Less than 12 years	8.9	14.2	3.9	17.5	18.1	7.2	9.2	6.6
Over 3 years college	18.7	11.6	9.6	8.5	16.8	14.5	16.1	21.9
Prenatal Care Began, Percent								
3rd Trimester or none	3.3	4.5	1.3	3.4	6.2	1.3	3.4	2.1
Prenatal Care Visits								
Median	11.4	10.2	11.6	11.1	10.5	12.1	10.6	12.7
Congenital Anomalies, Percent	1.3	.6	.6	2.5	1.5	1.3	1.1	1.5
High Risk, Percent	20.9	27.1	14.7	23.8	25.7	19.6	13.8	17.4
Other Significant Conditions of Child, Percent	4.7	6.5	2.2	7.2	5.0	2.6	3.4	3.3
Infant Deaths								
Total	606	1	28	7	6	6	-	9
White	536	1	28	5	3	6	-	9
Black	35	-	-	-	-	-	-	-
Indian	22	-	-	2	3	-	-	-
Neonatal Deaths								
Total	365	-	16	4	1	4	-	5
White	334	-	16	3	1	4	-	5
Black	16	-	-	-	-	-	-	-
Indian	6	-	-	1	-	-	-	-
First Day Deaths								
Total	187	-	9	2	-	-	-	2
White	173	-	9	2	-	-	-	2
Black	8	-	-	-	-	-	-	-
Indian	1	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	97	-	1	1	1	3	-	2
White	89	-	1	1	1	3	-	2
Black	5	-	-	-	-	-	-	-
Indian	2	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	81	-	6	1	-	1	-	1
White	72	-	6	-	-	1	-	1
Black	3	-	-	-	-	-	-	-
Indian	3	-	-	1	-	-	-	-
Fetal Deaths								
Total	400	1	11	5	6	5	-	6
White	341	1	11	5	3	5	-	6
Black	15	-	-	-	-	-	-	-
Indian	7	-	-	-	3	-	-	-
Perinatal Rate	11.6	6.5	7.0	20.2	11.4	17.0	-	15.3
Maternal Deaths	1	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1986 (CONT.)

	Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water
Live Births	411	357	713	333	187	447	659	138
Fertility Rate	66.3	61.3	70.2	93.3	70.1	73.5	51.9	86.4
Birth Rate	14.7	12.5	17.1	15.6	12.8	15.6	13.4	15.3
Sex: Male	202	186	370	173	103	227	347	71
Female	209	171	343	160	84	220	312	67
Out-of-Wedlock, Percent	10.0	24.4	9.7	24.6	10.7	16.6	14.6	22.5
Race: White	406	309	707	254	184	441	638	106
Black	-	1	-	-	1	2	2	-
Indian	1	43	-	77	2	3	13	32
Live Birth Order								
Median	2.4	2.5	2.3	2.6	2.6	2.4	2.4	2.6
% 5th or over	3.2	5.0	2.8	8.1	3.2	2.9	3.5	6.5
Prematurity, Percent								
Less than 37 weeks	2.9	6.4	7.3	5.7	2.7	5.4	9.0	7.2
Less than 2,500 grams	3.9	4.8	4.9	3.6	2.1	2.9	6.4	2.2
Plurality:								
Single	405	347	697	327	183	437	640	134
Twin	6	10	10	6	4	10	19	4
Triplet	-	-	6	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.9	2.5	1.8	2.7	3.2	3.6	1.1	4.3
18-19	3.6	8.1	3.4	10.2	5.3	8.9	4.6	8.0
40 and over	1.5	.3	.6	.6	.5	1.1	.5	-
Mother's Education, Percent								
Less than 12 years	2.2	12.3	5.2	17.1	6.4	11.9	5.6	20.3
Over 3 years college	7.5	11.5	18.2	10.5	12.8	10.3	17.1	10.1
Prenatal Care Began, Percent								
3rd Trimester or none	.5	4.2	2.7	8.1	1.1	1.6	3.5	5.1
Prenatal Care Visits								
Median	10.7	10.7	12.2	10.1	11.0	10.6	11.7	10.6
Congenital Anomalies, Percent	1.5	1.1	1.5	1.5	2.7	2.5	1.2	.7
High Risk, Percent	19.7	17.1	22.3	20.4	23.0	19.7	15.0	18.8
Other Significant Conditions of Child, Percent	4.6	5.0	4.5	4.5	5.9	6.5	2.4	2.9
Infant Deaths								
Total	3	6	6	4	1	6	9	1
White	3	6	6	4	1	6	9	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	2	3	4	2	-	1	7	1
White	2	3	4	2	-	1	7	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	1	2	2	1	-	-	4	1
White	1	2	2	1	-	-	4	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	1	-	-	-	1	2	-
White	-	1	-	-	-	1	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	1	-	2	1	-	-	1	-
White	1	-	2	1	-	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	4	-	3	-	-	4	9	2
White	4	-	3	-	-	4	8	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	14.6	8.4	9.8	6.0	-	11.2	24.3	21.7
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fill-more
Live Births	45	161	610	4,002	261	404	230	300
Fertility Rate	46.2	67.2	70.8	65.8	83.0	65.6	71.9	75.0
Birth Rate	10.3	11.8	14.0	17.5	17.2	13.5	12.5	14.0
Sex: Male	21	75	307	2,037	123	215	118	133
Female	24	86	303	1,965	138	189	112	167
Out-of-Wedlock, Percent	13.3	11.8	21.1	10.7	10.0	12.1	11.3	9.3
Race: White	40	160	598	3,846	260	400	230	299
Black	-	-	2	55	-	-	-	-
Indian	5	-	8	13	-	3	-	-
Live Birth Order								
Median	2.4	2.7	2.4	2.2	2.5	214	2.6	2.5
% 5th or over	2.2	4.3	4.3	1.8	3.4	3.5	2.2	7.0
Prematurity, Percent								
Less than 37 weeks	4.4	6.2	4.8	4.6	4.6	4.0	4.8	5.3
Less than 2,500 grams	2.2	6.2	5.4	4.6	6.1	3.5	3.0	5.3
Plurality:								
Single	45	155	600	3,917	257	402	226	295
Twin	-	6	10	85	4	2	4	5
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	4.4	1.2	3.9	1.5	1.9	2.7	1.7	2.3
18-19	4.4	7.5	8.5	3.0	4.6	7.9	6.1	2.7
40 and over	-	-	.8	.3	.4	.7	1.3	.7
Mother's Education, Percent								
Less than 12 years	13.3	9.3	14.9	5.3	10.3	7.9	7.8	9.7
Over 3 years college	20.0	16.8	13.4	23.8	12.6	12.1	13.0	14.3
Prenatal Care Began, Percent								
3rd Trimester or none	2.2	2.5	3.4	3.1	2.3	3.2	1.3	3.7
Prenatal Care Visits								
Median	11.3	12.1	10.6	10.6	11.4	10.7	10.4	10.6
Congenital Anomalies, Percent	4.4	1.2	1.8	1.1	.8	1.7	1.7	2.0
High Risk, Percent	31.1	19.3	24.3	16.9	20.3	20.0	19.1	20.0
Other Significant Conditions of Child, Percent	8.9	3.1	8.9	4.2	5.7	5.2	4.3	6.3
Infant Deaths								
Total	-	4	4	31	3	5	1	7
White	-	4	4	31	3	5	1	7
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	-	4	1	20	2	4	1	3
White	-	4	1	20	2	4	1	3
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	3	1	6	1	1	-	1
White	-	3	1	6	1	1	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	-	-	8	1	2	1	1
White	-	-	-	8	1	2	1	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	1	-	6	-	1	-	1
White	-	1	-	6	-	1	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	-	2	17	-	2	2	-
White	-	-	2	16	-	2	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	-	24.8	4.9	9.2	7.7	14.9	13.0	10.0
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Freeborn	Goodhue	Grant	Hennepin	Minn-eapolis	Houston	Hubbard
Live Births	428	574	78	16,042	6,564	276	194
Fertility Rate	62.4	70.3	62.0	63.2	69.5	74.0	60.7
Birth Rate	12.4	14.3	11.1	16.6	18.2	14.5	12.5
Sex: Male	231	300	26	8,195	3,415	131	96
Female	197	274	52	7,847	3,149	145	98
Out-of-Wedlock, Percent	15.7	11.0	11.5	20.6	36.0	10.1	14.9
Race: White	426	562	77	13,226	4,426	274	183
Black	-	-	-	1,429	1,236	1	-
Indian	2	8	1	525	475	-	10
Live Birth Order							
Median	2.4	2.4	2.5	2.2	2.2	2.5	2.5
% 5th or over	1.4	2.3	5.1	2.6	4.1	5.4	8.2
Prematurity, Percent							
Less than 37 weeks	7.5	5.4	1.3	6.1	7.3	4.3	1.5
Less than 2,500 grams	4.7	3.7	1.3	5.9	7.9	2.5	2.6
Plurality:							
Single	415	560	78	15,693	6,405	272	192
Twin	10	14	-	339	159	4	2
Triplet	3	-	-	6	-	-	-
Mother's Age, Percent							
Under 18	3.3	1.0	-	2.6	4.8	1.4	4.6
18-19	6.1	4.4	-	4.2	6.6	3.6	8.2
40 and over	.5	.5	1.3	.8	.9	1.1	.5
Mother's Education, Percent							
Less than 12 years	12.1	8.2	2.6	10.4	17.7	7.6	11.3
Over 3 years college	11.0	14.6	17.9	23.8	20.4	20.3	12.9
Prenatal Care Began, Percent							
3rd Trimester or none	3.5	2.6	1.3	4.0	6.9	2.2	4.1
Prenatal Care Visits							
Median	9.5	12.3	11.9	12.1	11.4	11.5	10.4
Congenital Anomalies, Percent	1.4	1.7	-	1.1	1.2	3.3	3.1
High Risk, Percent	23.6	16.7	12.8	22.9	28.6	14.1	20.1
Other Significant Conditions of Child, Percent	6.8	4.9	5.1	4.3	5.4	4.3	5.7
Infant Deaths							
Total	2	10	1	148	81	1	1
White	2	9	1	107	48	1	1
Black	-	-	-	26	20	-	-
Indian	-	1	-	11	11	-	-
Neonatal Deaths							
Total	1	8	-	85	45	1	-
White	1	8	-	66	31	1	-
Black	-	-	-	13	10	-	-
Indian	-	-	-	3	3	-	-
First Day Deaths							
Total	1	5	-	47	27	1	-
White	1	5	-	38	20	1	-
Black	-	-	-	8	6	-	-
Indian	-	-	-	1	1	-	-
1-6 Day Deaths							
Total	-	1	-	19	10	-	-
White	-	1	-	14	5	-	-
Black	-	-	-	3	3	-	-
Indian	-	-	-	2	2	-	-
7-27 Day Deaths							
Total	-	2	-	19	8	-	-
White	-	2	-	14	6	-	-
Black	-	-	-	2	1	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	3	4	1	81	35	2	1
White	3	2	-	55	21	2	1
Black	-	-	-	9	8	-	-
Indian	-	-	-	2	2	-	-
Perinatal Rate	9.3	20.9	12.8	10.3	12.2	10.9	5.2
Maternal Deaths	-	-	-	1	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Kooch-iching
Live Births	363	561	174	188	559	103	172
Fertility Rate	56.6	61.2	69.0	73.7	60.7	81.4	51.7
Birth Rate	13.8	12.8	13.1	14.9	14.0	15.6	10.6
Sex: Male	190	287	92	92	310	60	91
Female	173	274	82	96	249	43	81
Out-of-Wedlock, Percent	17.9	22.5	10.3	17.6	11.6	7.8	17.4
Race: White	347	494	171	186	550	99	151
Black	1	-	-	-	1	-	1
Indian	-	65	-	1	5	-	13
Live Birth Order							
Median	2.3	2.4	2.2	2.6	2.4	2.4	2.5
% 5th or over	3.6	5.3	1.7	4.3	3.0	-	5.2
Prematurity, Percent							
Less than 37 weeks	4.4	9.1	11.5	4.3	5.5	8.7	1.7
Less than 2,500 grams	2.5	7.0	6.9	3.2	3.8	4.9	2.9
Plurality:							
Single	363	549	166	188	546	99	172
Twin	-	12	8	-	13	4	-
Triplet	-	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	1.7	4.1	3.4	3.7	1.4	1.9	2.3
18-19	8.8	8.9	4.0	5.3	5.5	6.8	5.2
40 and over	.8	.5	-	1.1	.5	-	.6
Mother's Education, Percent							
Less than 12 years	12.1	11.2	7.5	13.3	8.2	6.8	9.3
Over 3 years college	11.8	10.0	14.9	9.0	14.0	19.4	11.0
Prenatal Care Began, Percent							
3rd Trimester or none	2.5	1.4	2.3	4.3	2.3	5.8	.6
Prenatal Care Visits							
Median	11.0	10.7	12.0	10.8	11.8	10.2	10.5
Congenital Anomalies, Percent	1.7	1.6	2.3	1.6	1.6	2.9	1.2
High Risk, Percent	22.0	24.2	23.0	24.5	14.3	19.4	18.0
Other Significant Conditions of Child, Percent	6.6	8.9	8.0	6.9	6.4	2.9	3.5
Infant Deaths							
Total	5	5	3	1	9	1	2
White	5	5	3	1	9	1	2
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Neonatal Deaths							
Total	4	4	2	1	7	1	1
White	4	4	2	1	7	1	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	2	3	1	1	2	1	-
White	2	3	1	1	2	1	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	1	1	-	-	1	-	1
White	1	1	-	-	1	-	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	1	-	1	-	4	-	-
White	1	-	1	-	4	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	5	4	-	-	10	2	2
White	3	4	-	-	9	2	2
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	24.8	14.3	11.5	5.3	30.4	29.1	17.4
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Lac Qui Parle	Lake	Lake of the Woods	LeSueur	Lincoln	Lyon	McLeod	Mahnomen
Live Births	129	137	63	336	74	351	534	74
Fertility Rate	74.4	63.6	84.8	75.3	59.0	61.8	81.6	77.4
Birth Rate	12.7	12.0	16.2	14.2	9.6	13.8	17.6	13.3
Sex: Male	62	75	26	149	42	175	281	38
Female	67	62	37	187	32	176	253	36
Out-of-Wedlock, Percent	9.3	10.9	7.9	10.7	10.8	10.3	12.2	31.1
Race: White	129	134	61	335	74	347	530	49
Black	-	-	-	-	-	1	-	-
Indian	-	1	1	1	-	3	1	25
Live Birth Order								
Median	2.5	2.5	2.3	2.6	2.7	2.5	2.5	2.6
% 5th or over	2.3	4.4	6.3	5.1	4.1	4.6	2.2	5.4
Prematurity, Percent								
Less than 37 weeks	6.2	6.6	7.9	3.6	12.2	4.8	5.4	6.8
Less than 2,500 grams	5.4	3.6	3.2	3.3	5.4	4.8	4.3	4.1
Plurality:								
Single	127	135	61	332	68	349	519	74
Twin	2	2	2	4	6	2	15	-
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.3	2.9	4.8	2.4	-	.9	.7	5.4
18-19	1.6	6.6	1.6	5.4	5.4	4.8	6.0	10.8
40 and over	-	1.5	-	.9	1.4	.3	1.1	6.8
Mother's Education, Percent								
Less than 12 years	3.9	6.6	9.5	8.6	10.8	6.6	5.6	17.6
Over 3 years college	16.3	12.4	11.1	12.2	13.5	17.1	14.0	13.5
Prenatal Care Began, Percent								
3rd Trimester or none	1.6	2.9	3.2	3.3	2.7	4.3	1.5	1.4
Prenatal Care Visits								
Median	9.9	11.3	9.8	12.2	9.9	11.9	12.2	11.0
Congenital Anomalies, Percent	.8	1.5	1.6	2.4	2.7	2.0	3.4	4.1
High Risk, Percent	26.4	18.2	20.6	22.0	21.6	28.2	20.8	25.7
Other Significant Conditions of Child, Percent	7.8	4.4	6.3	4.5	6.8	7.4	5.8	2.7
Infant Deaths								
Total	2	2	-	3	1	1	4	-
White	2	2	-	3	1	1	4	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	1	2	-	1	1	-	2	-
White	1	2	-	1	1	-	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	-	-	-	-	-	2	-
White	-	-	-	-	-	-	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	1	-	1	1	-	-	-
White	1	1	-	1	1	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	1	-	-	-	-	-	-
White	-	1	-	-	-	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	-	-	6	-	2	6	-
White	-	-	-	6	-	2	6	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	7.8	14.6	-	20.8	13.5	5.7	15.0	-
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Marshall	Martin	Meeker	Mille Lacs	Morrison	Mower	Murray
Live Births	138	308	314	295	480	479	138
Fertility Rate	59.3	68.1	79.2	84.5	81.1	66.9	71.8
Birth Rate	10.9	12.8	14.9	15.8	15.9	12.2	12.6
Sex: Male	67	169	166	159	251	237	77
Female	71	139	148	136	229	242	61
Out-of-Wedlock, Percent	5.8	8.4	13.7	17.6	16.0	13.2	9.4
Race: White	136	308	314	270	477	470	136
Black	-	-	-	1	-	1	1
Indian	2	-	-	20	1	1	1
Live Birth Order							
Median	2.7	2.5	2.4	2.6	2.6	2.5	2.5
% 5th or over	8.0	3.2	5.7	2.7	8.8	3.8	5.1
Prematurity, Percent							
Less than 37 weeks	5.8	4.2	5.7	9.2	5.4	5.4	8.0
Less than 2,500 grams	2.9	3.9	5.1	5.1	3.5	4.4	5.8
Plurality:							
Single	136	302	314	287	477	462	132
Twin	2	6	-	8	3	14	6
Triplet	-	-	-	-	-	3	-
Mother's Age, Percent							
Under 18	.7	2.9	1.9	3.4	4.2	1.0	2.9
18-19	3.6	3.2	6.4	5.8	5.8	4.2	6.5
40 and over	2.2	.3	1.6	.3	.8	1.0	-
Mother's Education, Percent							
Less than 12 years	5.8	8.4	9.9	13.2	9.2	6.1	7.2
Over 3 years college	18.8	12.3	11.8	6.1	10.6	11.9	17.4
Prenatal Care Began, Percent							
3rd Trimester or none	2.9	1.6	3.8	2.4	2.1	3.5	4.3
Prenatal Care Visits							
Median	10.4	11.5	11.1	10.8	12.1	9.7	11.2
Congenital Anomalies, Percent	-	1.3	1.9	2.0	1.7	1.7	-
High Risk, Percent	21.0	14.3	21.3	19.7	18.5	22.5	18.8
Other Significant Conditions of Child, Percent	3.6	5.8	7.6	5.8	4.0	7.9	3.6
Infant Deaths							
Total	1	-	2	3	6	3	1
White	1	-	2	3	6	3	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Neonatal Deaths							
Total	-	-	2	3	4	3	-
White	-	-	2	3	4	3	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	-	-	1	3	3	-	-
White	-	-	1	3	3	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	-	-	1	-	1	2	-
White	-	-	1	-	1	2	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	-	-	-	-	-	1	-
White	-	-	-	-	-	1	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	-	-	2	5	3	2	2
White	-	-	2	4	3	2	2
Black	-	-	-	-	-	-	-
Indian	-	-	-	1	-	-	-
Perinatal Rate	-	-	12.7	27.1	14.6	10.4	14.5
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Nicollet	Nobles	Norman	Olmsted	Otter Tail	Penn-ington	Pine
Live Births	411	273	100	1,727	718	200	292
Fertility Rate	59.5	63.0	63.4	63.7	68.1	67.6	74.7
Birth Rate	14.5	12.8	11.0	17.5	13.1	14.6	14.0
Sex: Male	206	139	46	875	383	114	151
Female	205	134	54	852	335	86	141
Out-of-Wedlock, Percent	10.7	9.9	6.0	10.6	9.9	15.0	16.1
Race: White	409	269	100	1,621	707	197	284
Black	1	1	-	19	2	1	1
Indian	-	-	-	5	5	2	6
Live Birth Order							
Median	2.4	2.4	2.6	2.3	2.5	2.4	2.6
% 5th or over	1.5	3.3	7.0	3.6	3.9	4.5	5.5
Prematurity, Percent							
Less than 37 weeks	5.8	5.5	8.0	6.5	5.2	5.0	5.8
Less than 2,500 grams	3.9	5.9	4.0	5.2	3.9	4.5	4.5
Plurality:							
Single	407	263	96	1,683	708	200	284
Twin	4	10	4	41	10	-	8
Triplet	-	-	-	3	-	-	-
Mother's Age, Percent							
Under 18	1.7	1.8	2.0	1.0	2.4	1.5	2.7
18-19	4.1	5.5	3.0	3.4	5.0	4.5	6.2
40 and over	.7	.7	2.0	.5	1.5	.5	1.0
Mother's Education, Percent							
Less than 12 years	4.1	6.6	5.0	6.3	8.8	9.0	13.7
Over 3 years college	19.0	12.8	18.0	31.0	16.9	11.0	11.0
Prenatal Care Began, Percent							
3rd Trimester or none	1.5	1.8	5.0	2.1	2.9	5.0	6.2
Prenatal Care Visits							
Median	12.6	12.7	10.9	11.2	11.8	11.0	10.8
Congenital Anomalies, Percent	1.9	1.5	3.0	.8	2.2	2.0	.7
High Risk, Percent	17.0	16.5	19.0	25.9	22.4	18.5	21.2
Other Significant Conditions of Child, Percent	2.9	4.0	6.0	4.6	8.6	4.0	5.8
Infant Deaths							
Total	3	2	2	9	7	1	4
White	3	2	2	7	6	1	4
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	1	-	-
Neonatal Deaths							
Total	1	1	1	8	2	-	2
White	1	1	1	6	2	-	2
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	-	-	1	3	2	-	-
White	-	-	1	2	2	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	-	-	-	2	-	-	1
White	-	-	-	1	-	-	1
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	1	1	-	3	-	-	1
White	1	1	-	3	-	-	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	4	3	1	8	4	-	5
White	4	2	1	8	4	-	4
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	1
Perinatal Rate	12.2	14.7	20.0	9.3	8.4	-	24.0
Maternal Deaths	-	1	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Pipe-stone	Polk	Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville
Live Births	173	518	151	8,209	5,064	63	259	249
Fertility Rate	85.9	76.0	77.2	70.9	78.9	68.0	77.7	71.8
Birth Rate	15.5	15.2	12.9	17.6	19.0	12.4	14.0	13.0
Sex: Male	84	273	74	4,082	2,479	27	136	117
Female	89	245	77	4,127	2,585	36	123	132
Out-of-Wedlock, Percent	12.1	18.0	11.3	21.4	27.6	14.3	7.7	9.6
Race: White	168	500	151	6,776	3,860	63	250	245
Black	-	2	-	513	464	-	-	-
Indian	5	14	-	97	85	-	8	3
Live Birth Order								
Median	2.6	2.5	2.8	2.2	2.3	2.7	2.7	2.6
% 5th or over	7.5	4.4	7.9	4.9	6.9	3.2	7.7	1.6
Prematurity, Percent								
Less than 37 weeks	2.9	6.9	4.6	6.2	6.8	3.2	6.6	5.6
Less than 2,500 grams	4.0	2.7	6.0	6.0	6.5	4.8	4.2	4.0
Plurality:								
Single	167	508	147	7,998	4,947	63	251	245
Twin	6	10	4	195	110	-	8	4
Triplet	-	-	-	15	6	-	-	-
Mother's Age, Percent								
Under 18	4.0	3.3	2.0	3.3	4.5	3.2	.4	3.2
18-19	5.8	6.6	6.0	5.1	6.1	9.5	3.1	4.8
40 and over	1.2	.6	2.0	1.0	1.2	-	.8	-
Mother's Education, Percent								
Less than 12 years	10.4	13.3	7.3	10.4	14.2	11.1	5.0	6.0
Over 3 years college	9.2	13.3	14.6	24.3	21.8	7.9	12.0	12.4
Prenatal Care Began, Percent								
3rd Trimester or none	2.9	3.7	2.6	4.7	6.4	7.9	2.3	1.2
Prenatal Care Visits								
Median	11.9	11.7	10.3	11.0	10.8	10.0	11.3	11.7
Congenital Anomalies, Percent	-	.6	2.0	1.0	1.0	6.3	.8	.4
High Risk, Percent	15.6	15.1	19.9	23.4	26.0	31.7	17.0	14.5
Other Significant Conditions of Child, Percent	4.0	1.5	7.9	4.1	4.8	14.3	3.9	6.0
Infant Deaths								
Total	1	7	-	89	61	1	3	1
White	1	7	-	72	48	1	3	1
Black	-	-	-	7	7	-	-	-
Indian	-	-	-	2	-	-	-	-
Neonatal Deaths								
Total	-	2	-	58	41	1	2	-
White	-	2	-	50	35	1	2	-
Black	-	-	-	1	1	-	-	-
Indian	-	-	-	2	-	-	-	-
First Day Deaths								
Total	-	2	-	33	25	-	1	-
White	-	2	-	29	21	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	-	-	14	9	1	1	-
White	-	-	-	12	7	1	1	-
Black	-	-	-	1	1	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	-	11	7	-	-	-
White	-	-	-	9	7	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	2	-	-	-	-
Fetal Deaths								
Total	1	4	-	55	36	1	-	-
White	1	4	-	42	24	1	-	-
Black	-	-	-	6	6	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	5.8	11.6	-	13.8	15.2	31.7	7.7	-
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Rice	Rock	Roseau	St. Louis	Duluth	Scott	Sher-burne	Sibley
Live Births	675	133	235	2,493	1,258	964	564	194
Fertility Rate	56.6	63.6	86.7	56.0	65.0	74.3	65.0	68.2
Birth Rate	14.2	12.7	17.1	12.3	15.0	18.4	15.8	12.5
Sex: Male	374	74	115	1,276	636	514	289	90
Female	301	59	120	1,217	622	450	275	104
Out-of-Wedlock, Percent	14.7	6.0	8.1	21.2	25.2	9.9	12.8	7.7
Race: White	656	133	226	2,327	1,148	944	518	194
Black	3	-	1	15	13	3	1	-
Indian	4	-	3	116	71	6	2	-
Live Birth Order								
Median	2.3	2.6	2.3	2.3	2.2	2.3	2.5	2.6
% 5th or over	3.3	2.3	6.0	3.1	2.9	3.2	2.3	5.2
Prematurity, Percent								
Less than 37 weeks	5.0	5.3	3.0	7.9	8.5	5.6	4.8	2.6
Less than 2,500 grams	5.5	2.3	1.7	5.5	6.2	5.0	2.7	5.2
Plurality:								
Single	665	133	233	2,447	1,234	941	556	190
Twin	10	-	2	46	24	20	8	4
Triplet	-	-	-	-	-	3	-	-
Mother's Age, Percent								
Under 18	1.9	.8	2.1	3.5	4.0	1.8	3.7	1.0
18-19	5.3	5.3	7.7	5.9	5.6	3.1	4.8	2.1
40 and over	.6	-	.4	.8	.7	.6	.4	1.0
Mother's Education, Percent								
Less than 12 years	9.3	3.0	9.4	12.4	13.5	6.3	10.8	4.6
Over 3 years college	16.4	12.0	15.7	17.0	20.8	15.5	11.3	8.2
Prenatal Care Began, Percent								
3rd Trimester or none	3.6	.8	3.4	2.9	2.4	1.8	1.4	1.0
Prenatal Care Visits								
Median	12.1	12.2	10.7	11.0	10.9	11.7	11.3	11.7
Congenital Anomalies, Percent	2.2	1.5	3.0	1.9	2.1	1.2	1.2	2.6
High Risk, Percent	25.3	17.3	25.5	21.9	20.0	17.1	17.2	20.1
Other Significant Conditions of Child, Percent	7.1	2.3	8.1	6.6	7.1	3.6	4.1	6.7
Infant Deaths								
Total	3	-	4	21	13	4	6	2
White	3	-	4	20	13	4	6	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	1	-	-	-	-
Neonatal Deaths								
Total	3	-	1	12	8	3	2	2
White	3	-	1	12	8	3	2	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	2	-	1	8	6	-	2	1
White	2	-	1	8	6	-	2	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	-	-	2	1	3	-	-
White	1	-	-	2	1	3	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	-	2	1	-	-	1
White	-	-	-	2	1	-	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	2	1	2	21	14	5	1	2
White	2	1	2	20	13	3	1	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	7.4	7.5	12.8	13.2	17.5	8.3	5.3	20.6
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
Live Births	1,822	443	141	136	381	79	299
Fertility Rate	64.8	65.8	61.3	63.7	79.9	92.6	80.8
Birth Rate	15.7	14.4	12.7	10.9	15.0	15.5	15.5
Sex: Male	953	233	69	71	190	37	158
Female	869	210	72	65	191	42	141
Out-of-Wedlock, Percent	12.5	12.6	7.1	15.4	12.6	11.4	10.7
Race: White	1,800	435	138	136	378	75	298
Black	5	3	-	-	1	-	-
Indian	5	1	-	-	2	3	-
Live Birth Order							
Median	2.4	2.5	2.3	2.6	2.6	2.7	2.5
% 5th or over	5.6	3.2	3.5	2.2	7.1	7.6	4.0
Prematurity, Percent							
Less than 37 weeks	4.7	5.2	1.4	5.1	5.0	10.1	4.7
Less than 2,500 grams	4.1	3.6	4.3	5.1	4.5	5.1	4.7
Plurality:							
Single	1,777	437	141	134	375	79	293
Twin	42	6	-	2	6	-	6
Triplet	3	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	1.5	1.4	1.4	4.4	3.4	1.3	2.0
18-19	4.6	3.2	2.1	4.4	8.9	6.3	3.3
40 and over	.8	.2	.7	.7	1.0	1.3	-
Mother's Education, Percent							
Less than 12 years	5.9	7.2	-	8.1	10.2	5.1	10.4
Over 3 years college	14.9	14.0	3.5	8.8	8.1	15.2	11.7
Prenatal Care Began, Percent							
3rd Trimester or none	1.9	3.2	1.4	3.7	3.9	1.3	4.7
Prenatal Care Visits							
Median	11.8	10.6	11.8	11.3	10.9	12.1	11.2
Congenital Anomalies, Percent	1.0	2.3	2.1	-	1.8	-	.7
High Risk, Percent	18.7	19.0	18.4	22.1	21.3	21.5	20.4
Other Significant Conditions of Child, Percent	4.4	7.2	4.3	3.7	5.5	7.6	5.4
Infant Deaths							
Total	16	2	3	-	4	1	1
White	15	2	3	-	4	-	1
Black	1	-	-	-	-	-	-
Indian	-	-	-	-	-	1	-
Neonatal Deaths							
Total	11	1	2	-	2	-	-
White	10	1	2	-	2	-	-
Black	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	5	-	1	-	1	-	-
White	5	-	1	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	3	1	1	-	1	-	-
White	3	1	1	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	3	-	-	-	-	-	-
White	2	-	-	-	-	-	-
Black	1	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	14	3	-	1	3	2	1
White	14	3	-	1	3	2	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	13.7	9.0	14.2	7.4	13.1	25.3	3.3
Maternal Deaths	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

	Wadena	Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
Live Births	228	254	1,936	177	96	658	1,139	137
Fertility Rate	88.1	64.0	58.9	83.5	64.0	55.7	75.9	61.4
Birth Rate	16.6	13.6	15.1	15.3	11.8	14.1	17.7	10.8
Sex: Male	120	140	1,051	93	56	348	551	69
Female	108	114	885	84	40	310	588	68
Out-of-Wedlock, Percent	14.9	11.8	11.5	15.8	10.4	14.4	11.7	2.9
Race: White	224	254	1,887	176	94	648	1,056	136
Black	-	-	12	-	1	3	-	-
Indian	2	-	11	1	1	1	-	1
Live Birth Order								
Median	2.5	2.5	2.3	2.5	2.6	2.4	2.5	2.5
% 5th or over	8.8	4.7	2.5	2.3	9.4	5.2	5.7	2.9
Prematurity, Percent								
Less than 37 weeks	4.8	5.5	6.9	6.2	2.1	7.8	6.2	6.6
Less than 2,500 grams	5.3	2.8	5.8	6.8	2.1	5.5	5.0	2.2
Plurality:								
Single	222	250	1,873	175	96	648	1,119	135
Twin	6	4	60	2	-	10	20	2
Triplet	-	-	3	-	-	-	-	-
Mother's Age, Percent								
Under 18	3.1	2.0	1.8	2.8	1.0	2.6	1.9	.7
18-19	11.0	3.1	3.9	6.8	2.1	4.1	4.6	2.2
40 and over	.4	1.6	1.0	-	3.1	.6	1.2	-
Mother's Education, Percent								
Less than 12 years	8.3	9.1	5.8	10.7	4.2	10.0	6.8	8.0
Over 3 years college	11.8	16.1	21.2	12.4	16.7	20.7	10.6	13.9
Prenatal Care Began, Percent								
3rd Trimester or none	3.5	2.8	2.7	3.4	6.3	2.7	4.2	2.9
Prenatal Care Visits								
Median	10.8	11.1	11.0	11.6	11.3	10.9	11.2	11.7
Congenital Anomalies, Percent	1.8	.8	1.2	.6	1.0	2.3	1.2	.7
High Risk, Percent	25.0	17.3	19.9	15.8	21.9	21.4	19.5	23.4
Other Significant Conditions of Child, Percent	6.6	1.6	4.9	4.0	7.3	7.0	4.2	8.0
Infant Deaths								
Total	3	2	19	2	-	10	7	-
White	3	2	19	2	-	10	7	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	2	1	13	2	-	8	3	-
White	2	1	13	2	-	8	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	1	-	6	-	-	5	2	-
White	1	-	6	-	-	5	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	1	4	1	-	1	1	-
White	1	1	4	1	-	1	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	3	1	-	2	-	-
White	-	-	3	1	-	2	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	1	5	14	1	-	5	7	1
White	1	5	12	1	-	4	7	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	13.2	23.6	13.9	16.9	-	19.8	8.8	7.3
Maternal Deaths	-	-	-	-	-	-	-	-

* As of the 1980 Census

Table 10
LIVE BIRTH WEIGHT BY LIVE BIRTH ORDER AND SEX
MINNESOTA RESIDENTS, 1986

		Weight in Grams									
Live Birth Order	Total Births	999 or Less	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 to 4,499	4,500 and Over	Weight Not Stated
First	24,752	123	141	251	913	3,389	9,138	8,027	2,337	410	23
Second	21,643	80	88	174	622	2,397	7,209	7,680	2,802	571	20
Third	10,847	25	32	95	317	1,129	3,489	3,878	1,511	361	10
Fourth	3,789	16	27	41	117	446	1,208	1,280	516	134	4
Fifth	1,313	8	9	27	46	147	408	411	201	54	2
Sixth	542	1	4	6	18	57	161	191	71	30	3
Seventh	245	1	1	4	5	27	68	80	48	11	-
Eight or Over	262	2	-	5	6	20	85	87	38	18	1
Not Stated	2,373	14	18	17	61	213	555	511	173	43	768
TOTAL	65,766	270	320	620	2,105	7,825	22,321	22,145	7,697	1,632	831
Male	33,630	140	169	323	964	3,390	10,330	11,878	4,845	1,159	432
Female	32,136	130	151	297	1,141	4,435	11,991	10,267	2,852	473	399

Table 11
LIVE BIRTHS BY AGE OF MOTHER AND LIVE BIRTH ORDER
MINNESOTA RESIDENTS, 1986

		Age of Mother								
Live Birth Order	Total Births	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 & Over Years	Age Not Stated
First	24,752	52	3,765	8,652	8,325	3,268	635	50	3	2
Second	21,643	1	704	5,771	8,850	5,068	1,176	70	1	2
Third	10,847	-	103	1,893	4,443	3,389	948	69	1	1
Fourth	3,789	-	16	452	1,413	1,279	547	81	-	1
Fifth	1,313	-	-	81	376	498	288	64	6	-
Sixth	542	-	-	22	126	200	154	37	3	-
Seventh	245	-	-	10	45	78	92	18	2	-
Eight or Over	262	-	-	2	17	55	101	69	18	-
Not Stated	2,373	1	163	602	896	546	145	16	1	3
TOTAL	65,766	54	4,751	17,485	24,491	14,381	4,086	474	35	9
Percent	100.0	0.0	7.2	26.5	37.2	21.8	6.2	.7	0.0	0.0

Table 12
PRENATAL CARE AND RACE BY AGE OF MOTHER AND BY LEGITIMACY STATUS
MINNESOTA RESIDENTS, 1986

			Age of Mother					
	Total	Percent	Under 15	15-19	20-29	30-39	40 and Over	Unknown
Legitimate Live Births	55,062*	-	1	1,393	35,777	17,429	456	6
Prenatal Care Started								
1st Trimester	39,755	72.2	1	736	25,842	12,906	267	3
2nd Trimester	6,279	11.4	-	355	4,083	1,749	90	2
3rd Trimester	938	1.7	-	63	626	227	22	-
No Care	265	0.5	-	11	152	96	6	-
Unknown	7,825	14.2	-	228	5,074	2,451	71	1
Race								
White	51,343	93.2	-	1,205	33,412	16,331	390	5
Black	746	1.4	-	21	472	245	8	-
Indian	490	0.9	-	37	349	101	3	-
Out-of-Wedlock Live Births	10,704**	-	53	3,358	6,199	1,038	53	3
Prenatal Care Started								
1st Trimester	5,122	47.9	13	1,435	3,109	543	22	-
2nd Trimester	2,793	26.1	19	1,047	1,481	233	13	-
3rd Trimester	687	6.4	5	263	374	38	7	-
No Care	255	2.4	5	71	149	27	3	-
Unknown	1,847	17.3	11	542	1,086	197	8	3
Race								
White	7,967	74.4	23	2,519	4,654	737	32	2
Black	1,364	12.7	14	417	794	136	2	1
Indian	982	9.2	9	294	562	111	6	-
Legitimate Fetal Deaths	306*	-	-	9	185	99	7	6
Race								
White	273	89.2	-	9	166	87	7	4
Black	6	2.0	-	-	4	2	-	-
Indian	2	0.7	-	-	1	1	-	-
Out-of-Wedlock Fetal Deaths	94**	-	-	31	49	8	1	5
Race								
White	68	72.3	-	24	38	3	1	2
Black	9	9.6	-	4	3	2	-	-
Indian	5	5.3	-	-	3	1	-	1

* Includes deliveries of other and unknown races
** Includes deliveries of other and unknown races and unknown legitimacy status

Reported Induced Abortions

Table 13
TOTAL REPORTED AND RESIDENT INDUCED ABORTIONS
MINNESOTA 1973-1986

Year	Total Reported Abortions	Minnesota Resident Abortions	Resident Percent	Resident Abortion Rate
1973[1]	7,263	4,169	57.4	5.1
1974[1]	8,732	7,154	81.9	8.6
1975	10,565	8,924	84.5	10.3
1976	14,124	11,109	78.7	12.5
1977	15,532	13,036	83.9	14.4
1978	17,262	14,521	84.1	15.6
1979	18,672	15,647	83.8	16.4
1980	19,028	16,490	86.7	17.2
1981	18,304	15,821	86.4	16.3
1982	17,758	15,559	87.6	15.8
1983	16,428	14,514	88.3	14.7
1984	17,314	15,556	89.8	15.7
1985	17,686	16,002	90.5	16.1
1986	17,383	15,716	90.4	15.8

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[1] Data obtained from the Center for Disease Control.

Table 14
REPORTED INDUCED ABORTIONS
SELECTED SURVEILLANCE RESULTS AND COMPARISONS
MINNESOTA, 1982-1986

Reported Induced Abortions [1]	1986	1985	1984	1983	1982	Percent Change 1985-1986	Percent Change 1982-1986
Total Reported Abortions	17,383	17,686	17,314	16,428	17,758	- 1.7	- 2.1
Minnesota Resident Abortions	15,716	16,002	15,556	14,514	15,559	- 1.8	+ 1.0
Total Monthly Average	1,449	1,474	1,443	1,369	1,480	- 1.7	- 2.1
Resident Monthly Average	1,310	1,334	1,296	1,210	1,297	- 1.8	+ 1.0
Gestational Age[1]							
Proportion <9 weeks	49.1%	46.7%	45.6%	47.9%	47.9%	+ 5.1	+ 2.5
Proportion <13 weeks	87.6%	87.6%	86.5%	87.5%	88.5%	0	- 1.0
Proportion ≥16 weeks	6.2%	5.9%	6.1%	5.6%	4.9%	+ 5.1	+26.5
Client's Age[1]							
Proportion < Age 18	9.8%	9.8%	9.0%	9.9%	10.0%	0	- 2.0
Proportion < Age 20	24.9%	25.6%	25.6%	27.4%	28.0%	- 2.7	-11.1
Proportion Age 20-34	68.3%	68.3%	68.9%	67.2%	59.9%	0	+14.0
Proportion ≥Age 35	6.6%	6.0%	5.5%	5.4%	4.8%	+10.0	+37.5
Contraception[1]							
Proportion "Never Used"	10.8%	14.1%	15.3%	19.3%	20.6%	-23.4	-47.6
Proportion "Used in Past but Not Now"[2]	58.3%	54.3%	56.1%	56.3%	54.5%	+ 7.4	+ 7.0
Proportion "Was Using at Conception"	28.4%	28.5%	25.5%	21.6%	22.0%	- 0.4	+29.1
Complications[1]							
Total per 1,000 Procedures	8.51	9.27	9.99	8.52	6.25	- 8.2	+36.2
Resident per 1,000 Procedures	9.23	10.06	10.48	8.96	6.68	- 8.3	+38.2
Resident - Suction Curettage	9.43	10.35	10.78	9.46	6.97	- 8.9	+35.3
Resident - All Other Methods	6.93	6.81	7.37	4.95	4.24	+ 1.8	+63.4

---

[1] Note: All data are Minnesota resident abortion statistics unless "Total" is indicated.

[2] Combines categories "Have Used but Discontinued" and "Interrupted Use of Usual Method", which were reported separately in years prior to 1985.

Table 15
REPORTED INDUCED ABORTIONS
BY SELECTED AGE GROUP BY RESIDENCE
MINNESOTA, 1986

	Total Reported Abortions			Minnesota Resident Abortions			
Age	Number	Percent of Teens	Percent of Total	Number	Percent of Teens	Percent of Residents	Resident Percent of Total
Total	17,383	-	100.0	15,716	-	100.0	90.4
<18	1,702	38.9	9.8	1,545	39.4	9.8	90.8
18-19	2,676	61.1	15.4	2,372	60.6	15.1	88.6
<20	4,378	100.0	25.2	3,917	100.0	24.9	89.5
20-24	6,345	-	36.5	5,724	-	36.4	90.2
25-29	3,636	-	20.9	3,323	-	21.1	91.4
30-34	1,850	-	10.6	1,682	-	10.7	91.9
35+	1,129	-	6.5	1,030	-	6.6	91.2
Unknown	45	-	0.3	40	-	0.3	88.9

FIGURE 1

REPORTED INDUCED ABORTIONS BY RECIPIENT'S AGE, MINNESOTA, 1986

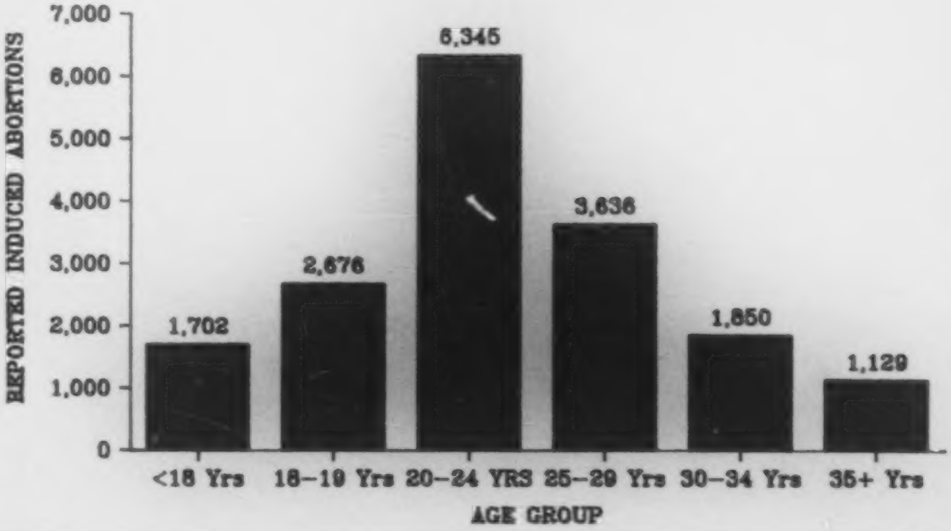

Table 16
REPORTED INDUCED ABORTIONS
BY RACE/ETHNIC GROUP AND RESIDENCE
MINNESOTA, 1986

	Total Reported Abortions		Minnesota Resident Abortions		
Race	Number	Percent	Number	Percent	Resident Percent
Total	17,383	100.0	15,716	100.0	90.4
White	15,583	89.6	13,989	89.0	89.8
Black	804	4.6	791	5.0	98.4
Indian	162	0.9	142	0.9	87.7
Hispanic	145	0.8	141	0.9	97.2
Asian	405	2.3	391	2.5	96.5
Other	77	0.4	74	0.5	96.1
Unknown	207	1.2	188	1.2	90.8

Table 17
REPORTED RESIDENT INDUCED ABORTIONS BY RACE AND AGE GROUP
MINNESOTA 1986

	Race			
Age Group	White	Non-White	Unknown[1]	Total
Total	13,989	1,398	329	15,716
< 15	56	27	3	86
15-17	1,297	131	31	1,459
18-19	2,153	178	41	2,372
20-24	5,208	412	104	5,724
25-29	2,935	316	72	3,323
30-34	1,441	197	44	1,682
35+	870	132	28	1,030
Unknown	29	5	6	40

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[1] Includes Hispanic origin.

Table 18
REPORTED INDUCED ABORTIONS
BY MARITAL STATUS AND RESIDENCE
MINNESOTA, 1986

Marital Status	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
Never Married	12,206	70.2	11,040	70.2	90.4
Married	2,424	13.9	2,188	13.9	90.3
Other[1] and Unknown	2,753	15.8	2,488	15.8	90.4

---

[1] Other includes: Divorced, Separated, and Widowed

Table 19
REPORTED RESIDENT INDUCED ABORTIONS
BY AGE GROUP AND MARITAL STATUS
MINNESOTA, 1986

Age Group	Reported Resident Abortions	Marital Status		
		Never Married	Currently Married	Other[1] and Unknown
Total	15,716	11,040	2,188	2,488
< 18	1,545	1,531	3	11
18-19	2,372	2,285	46	41
20-24	5,724	4,718	465	541
25-29	3,323	1,805	699	819
30-34	1,682	518	530	634
35+	1,030	162	434	434
Unknown	40	21	11	8

---

[1] Other includes: Divorced, Separated, and Widowed

Table 20
REPORTED INDUCED ABORTIONS BY GESTATION AND RESIDENCE MINNESOTA, 1986

Weeks of Gestation[1] (Post LMP)	Total Reported Abortions Number	Total Reported Abortions Percent	Minnesota Resident Abortions Number	Minnesota Resident Abortions Percent	Resident Percent
Total	17,383	100.0	15,716	100.0	90.4
<9	8,435	48.5	7,712	49.1	91.4
9-10	4,486	25.8	4,088	26.0	91.1
11-12	2,177	12.5	1,960	12.5	90.0
13-15	1,095	6.3	982	6.2	89.7
16-20	1,008	5.8	834	5.3	82.8
21+	182	1.0	139	0.9	76.4

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

Table 21
REPORTED RESIDENT INDUCED ABORTIONS BY AGE GROUP BY WEEKS OF GESTATION MINNESOTA, 1986

Age Group	Reported Resident Abortions	Gestation in Weeks[1] (LMP) <9	9-10	11-12	13-15	16-20	21+
Total	15,716	7,712	4,088	1,960	982	835	139
<18	1,545	508	430	274	157	152	24
18-19	2,372	966	629	342	241	164	30
20-24	5,724	2,900	1,453	703	335	282	51
25-29	3,323	1,794	884	360	137	125	23
30-34	1,682	956	431	166	58	63	8
35+	1,030	565	251	112	50	49	3
Unknown	40	23	10	3	4	0	0

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

FIGURE 2

REPORTED INDUCED ABORTIONS
BY WEEKS OF GESTATION, MINNESOTA, 1986

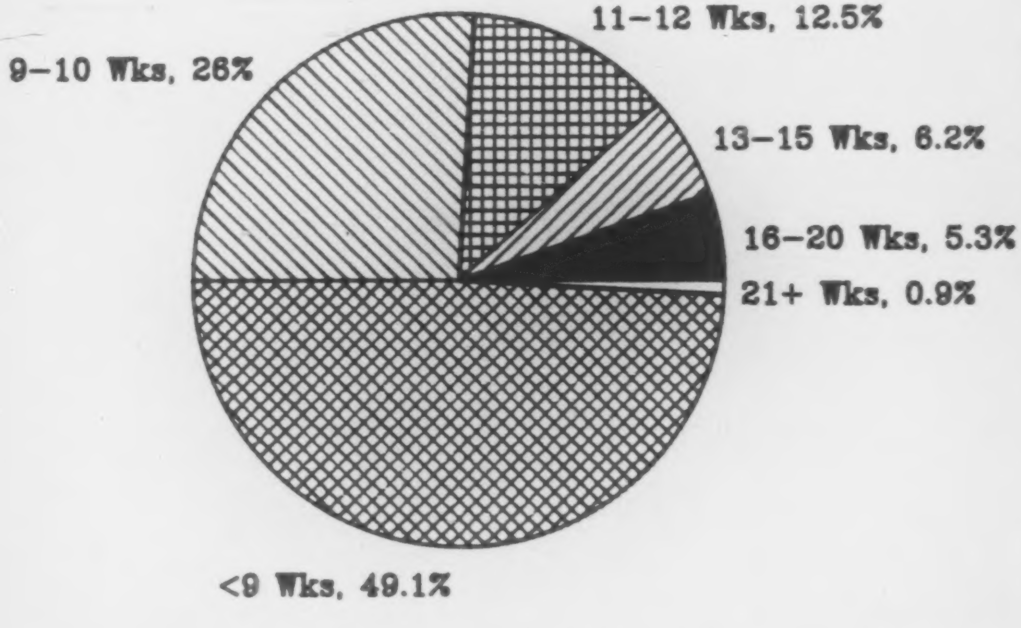


Table 22
PATIENTS REPORTING PRIOR ABORTIONS BY AGE GROUP AND RESIDENCE MINNESOTA, 1986

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Abortions[1]	Percent[2]	Number	Abortions[1]	Percent[2]
Total	17,383	5,710	32.8	15,716	5,285	33.6
<18	1,702	133	7.8	1,545	126	8.2
18-19	2,676	461	17.2	2,372	429	18.1
20-24	6,345	2,106	33.2	5,724	1,942	33.9
25-29	3,636	1,716	47.2	3,323	1,591	47.9
30-34	1,850	863	46.6	1,682	794	47.2
35+	1,129	417	36.9	1,030	390	37.9
Unknown	45	14	31.1	40	13	32.5

---

[1] Number of women who reported at least one prior abortion.

[2] Percentage of women within each age group who reported having had at least one prior abortion.

FIGURE 3

FIRST-TIME VERSUS REPEAT ABORTION RECIPIENTS BY AGE GROUP, MINNESOTA, 1986

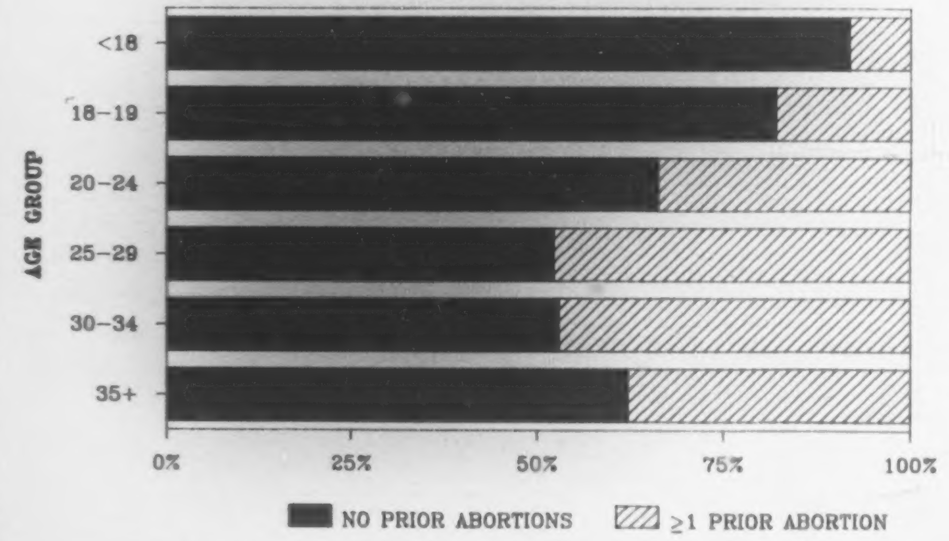


Table 23

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR ABORTIONS AND RESIDENCE
MINNESOTA, 1986

Number of Prior Abortions	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent of Total
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
0	11,673	67.2	10,431	66.4	89.4
1	4,041	23.2	3,724	23.7	92.2
2	1,149	6.6	1,067	6.8	92.9
3	342	2.0	323	2.1	94.4
4	107	0.6	103	0.7	96.3
5+	68	0.4	65	0.4	95.6
Unknown	3	0.0	3	0.0	100.0

Table 24
REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR LIVE BIRTHS AND RESIDENCE
MINNESOTA, 1986

Number of Prior Live Births	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent of Total
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.0	90.4
0	11,307	65.0	10,165	64.7	89.9
1	2,912	16.8	2,696	17.2	92.6
2	2,096	12.1	1,895	12.1	90.4
3	708	4.1	635	4.0	89.7
4	223	1.3	204	1.3	91.5
5	66	0.4	55	0.3	83.3
6	36	0.2	32	0.2	88.9
7	18	0.1	17	0.1	94.4
8+	5	0.0	5	0.0	100.0
Unknown	12	0.1	12	0.1	100.0

Table 25
ABORTION PATIENTS REPORTING PRIOR LIVE BIRTHS BY AGE GROUP AND RESIDENCE MINNESOTA, 1986

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Prior Live Births[1]	Percent[2]	Number	Prior Live Births[1]	Percent[2]
Total	17,383	6,064	34.9	15,716	5,539	35.2
<18	1,702	76	4.5	1,545	74	4.8
18-19	2,676	308	11.5	2,372	284	12.0
20-24	6,345	1,746	27.5	5,724	1,606	28.1
25-29	3,636	1,818	50.0	3,323	1,651	49.7
30-34	1,850	1,204	65.1	1,682	1,094	65.0
35+	1,129	896	79.4	1,030	814	79.0
Unknown	45	16	35.6	40	16	40.0

[1] Number of women who reported at least one prior live birth.

[2] Percentage of women within each age group who reported having had at least one prior live birth.

Table 26

REPORTED RESIDENT INDUCED ABORTIONS BY METHOD BY WEEKS OF GESTATION MINNESOTA, 1986

Method[1]	Reported Resident Abortions	Gestation in Weeks[2] (LMP)				
		<9	9-10	11-12	13-15	16+
Total	15,716	7,712	4,088	1,960	982	974
Vacuum Curettage	14,418	7,696	4,081	1,942	656	43
Dilation & Evacuation	1,282	5	5	17	326	929
Dilation & Curettage	9	8	0	1	0	0
Other[3]	7	3	2	0	0	2

[1] See definitions of methods in definitions section.

[2] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

[3] The "Other" category includes: prostaglandin; saline/fluid exchange; menstrual extraction (- pregnancy); menstrual extraction (+ pregnancy); hysterectomy; hysterotomy; and other.

Table 27

REPORTED INDUCED ABORTIONS BY METHOD BY COMPLICATIONS[1] AND RESIDENCE MINNESOTA, 1986

	Total Reported Abortions				Minnesota Resident Abortions			
Method[2]	Procedures	Percent	Complications	Rate[3]	Procedures	Percent	Complications	Rate[3]
Total	17,383	100.0	148	8.51	15,716	100.0	145	9.23
Vacuum Curettage	15,838	91.1	139	8.78	14,418	91.7	136	9.43
Dilation & Evacuation	1,528	8.8	7	4.58	1,282	8.2	7	5.46
Dilation & Curettage	10	0.1	0	0.0	9	0.1	0	0.0
Other[4]	7	0.0	2	285.71	7	0.0	2	285.71

[1] Reported complications include the categories: hemorrhage (>500 ml), pelvic infection, fever, cervical injury, uterine perforation, retained tissue and other procedure related conditions. In 1982, minor side effects experienced by abortion recipients were for the first time reported as complications. These minor side effects included bleeding (<500 ml), uterine cramping, and elevated temperatures lower than 38° C.

[2] See definitions of methods in definitions section.

[3] Rate is reported complications per 1,000 abortion procedures.

[4] The "Other" category includes: prostaglandin; saline/fluid exchange; menstrual extraction (- pregnancy); menstrual extraction (+ pregnancy); hysterectomy, hysterotomy; and other.

Table 28
MARITAL STATUS BY REPORTED CONTRACEPTIVE USE[1]
MINNESOTA RESIDENTS, 1986

		Reported Contraceptive Use[2]							
Marital Status	Reported Resident Abortions	Never Used	Percent[3]	Used in Past but Not Now	Percent[3]	Was Using	Percent[3]	Unknown	Percent[3]
Total	15,716	1,705	10.8	9,156	58.3	4,470	28.4	385	2.4
Never Married	11,040	1,478	13.4	6,497	58.8	2,822	25.6	243	2.2
Currently Married	2,188	115	5.3	1,182	54.0	821	37.5	70	3.2
Other[4] and Unknown	2,488	112	4.5	1,477	59.4	827	33.2	72	2.9

---

[1] These data relative to contraceptive use are subjective as reporting relies on client recall.

[2] Responses given —
Never used - "I've never used any form of birth control."
Used in Past but Not Now - includes responses similar to "I've used some type of birth control but not when I became pregnant" or "I usually use a method of contraception but through human error it was not effective (missed a pill, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)". Please note that when comparing this category to previous years it will be necessary to combine the categories "Discontinued Use" and "Interrupted Use" which were collected and reported separately prior to the 1984 revision of the collection document.
Was Using - "I was using contraception when I became pregnant."

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that marital status reporting any contraceptive use.

[4] Other includes: Divorced, Separated, and Widowed.

Table 29
REPORTED INDUCED ABORTIONS
BY AGE GROUP BY TYPE OF CONTRACEPTION AT CONCEPTION*
MINNESOTA RESIDENTS, 1986

Contraceptive Type	Reported Resident Abortions	Age Group						
		<18	18-19	20-24	25-29	30-34	35+	Unknown
Total	15,716	1,545	2,372	5,724	3,323	1,682	1,030	40
None	11,245	1,341	1,931	4,116	2,128	1,020	686	23
Condoms	849	89	155	293	166	91	51	4
Sponge	840	12	48	341	256	124	57	2
Combination Pills	788	48	105	367	187	67	11	3
Diaphragm	734	6	24	221	240	155	84	4
Foam	201	5	8	49	43	49	45	2
Withdrawal	186	18	44	78	24	11	11	0
Rhythm	181	5	15	60	46	36	19	0
Foam & Condom	144	3	15	50	43	21	12	0
Suppositories	138	2	6	50	46	19	14	1
Intrauterine Device	71	2	0	16	25	19	9	0
Male/Female Sterilization	38	1	0	5	13	10	9	0
Natural Family Planning	35	0	0	11	17	5	2	0
Spermicidal Cream/Jelly Alone	29	0	2	10	10	4	3	0
Cervical Cap	25	0	0	2	16	6	1	0
Mini Pills	20	2	2	5	4	7	0	0
Fertility Awareness	5	0	0	0	3	1	1	0
Injectable	1	0	0	0	1	0	0	0
Other	142	7	9	38	44	33	10	1
Unknown	44	4	8	12	11	4	5	0

* These data relative to contraceptive use are subjective as reporting relies on client recall.

Table 30
REPORTED INDUCED ABORTIONS BY AGE GROUP BY CONTRACEPTIVE USE[1]
MINNESOTA RESIDENTS, 1986

		Reported Contraceptive Use[2]							
Age Group	Reported Resident Abortions	Never Used	Percent[3]	Used in Past but Not Now	Percent[3]	Was Using	Percent[3]	Unknown	Percent[3]
Total	15,716	1,705	10.8	9,156	58.3	4,470	28.4	385	2.4
<15	86	50	58.1	28	32.6	7	8.1	1	1.2
15-17	1,459	477	32.7	749	51.3	197	13.5	36	2.5
18-19	2,372	441	18.6	1,435	60.5	441	18.6	55	2.3
20-24	5,724	473	8.3	3,510	61.3	1,607	28.1	134	2.3
25-29	3,323	150	4.5	1,899	57.1	1,195	36.0	79	2.4
30-34	1,682	64	3.8	912	54.2	662	39.4	44	2.6
35-39	845	33	3.9	493	58.3	293	34.7	26	3.1
40+	185	15	8.1	113	61.1	51	27.6	6	3.2
Unknown	40	2	5.0	17	42.5	17	42.5	4	10.0

[1] These data relative to contraceptive use are subjective as reporting relies on client recall.

[2] Responses given —
Never used - "I've never used any form of birth control."
Used in Past but Not Now - includes responses similar to "I've used some type of birth control but not when I became pregnant" or "I usually use a method of contraception but through human error it was not effective (missed a pill, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)". Please note that when comparing this category to previous years it will be necessary to combine the categories "Discontinued Use" and "Interrupted Use" which were collected and reported separately prior to the 1984 revision of the collection document.
Was Using - "I was using contraception when I became pregnant."

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that age group reporting any contraceptive use.

FIGURE 4

LEVEL OF CONTRACEPTIVE USE BY AGE GROUP
OF ABORTION RECIPIENTS, MINNESOTA, 1986

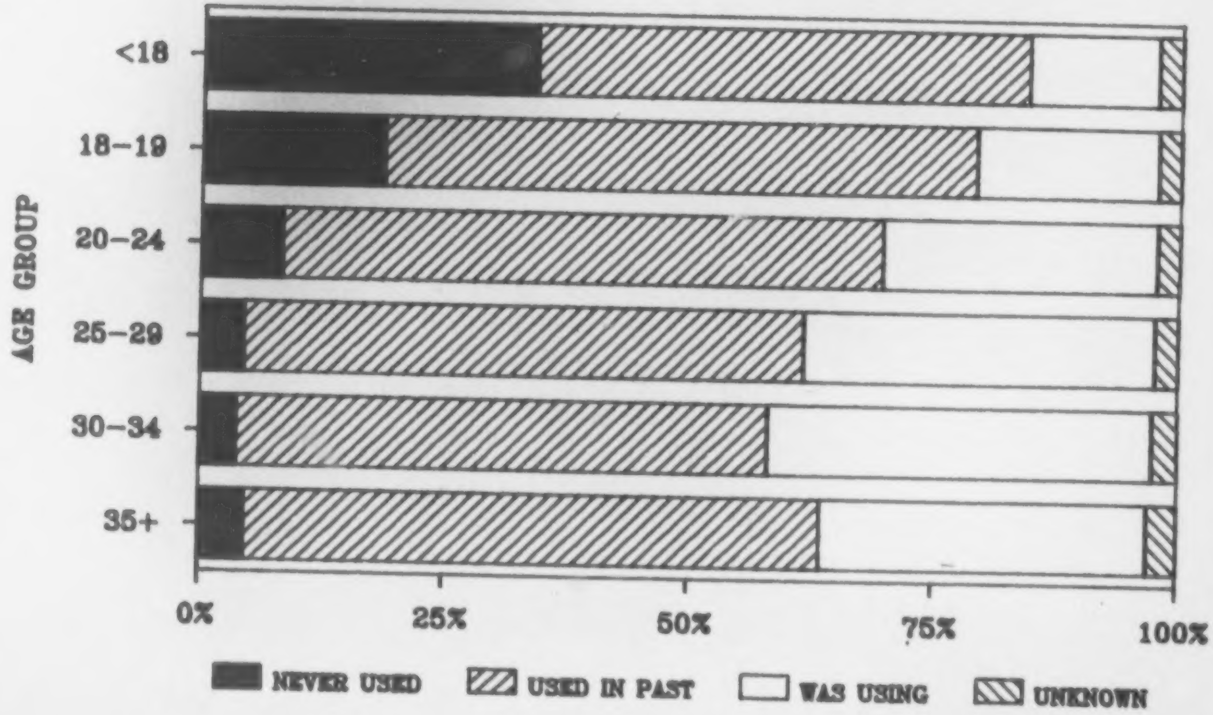


Table 31
REPORTED INDUCED ABORTIONS BY QUARTER AND RESIDENCE MINNESOTA, 1986

Quarter	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
Total	17,383	100.0	15,716	100.00	90.4
Jan - Mar	4,593	26.4	4,168	26.5	90.7
Apr - June	4,198	24.2	3,788	24.1	90.2
July - Sept	4,447	25.6	4,027	25.6	90.6
Oct - Dec	4,145	23.8	3,733	23.8	90.1

FIGURE 5

REPORTED INDUCED ABORTIONS BY MONTH PERFORMED, MINNESOTA, 1986

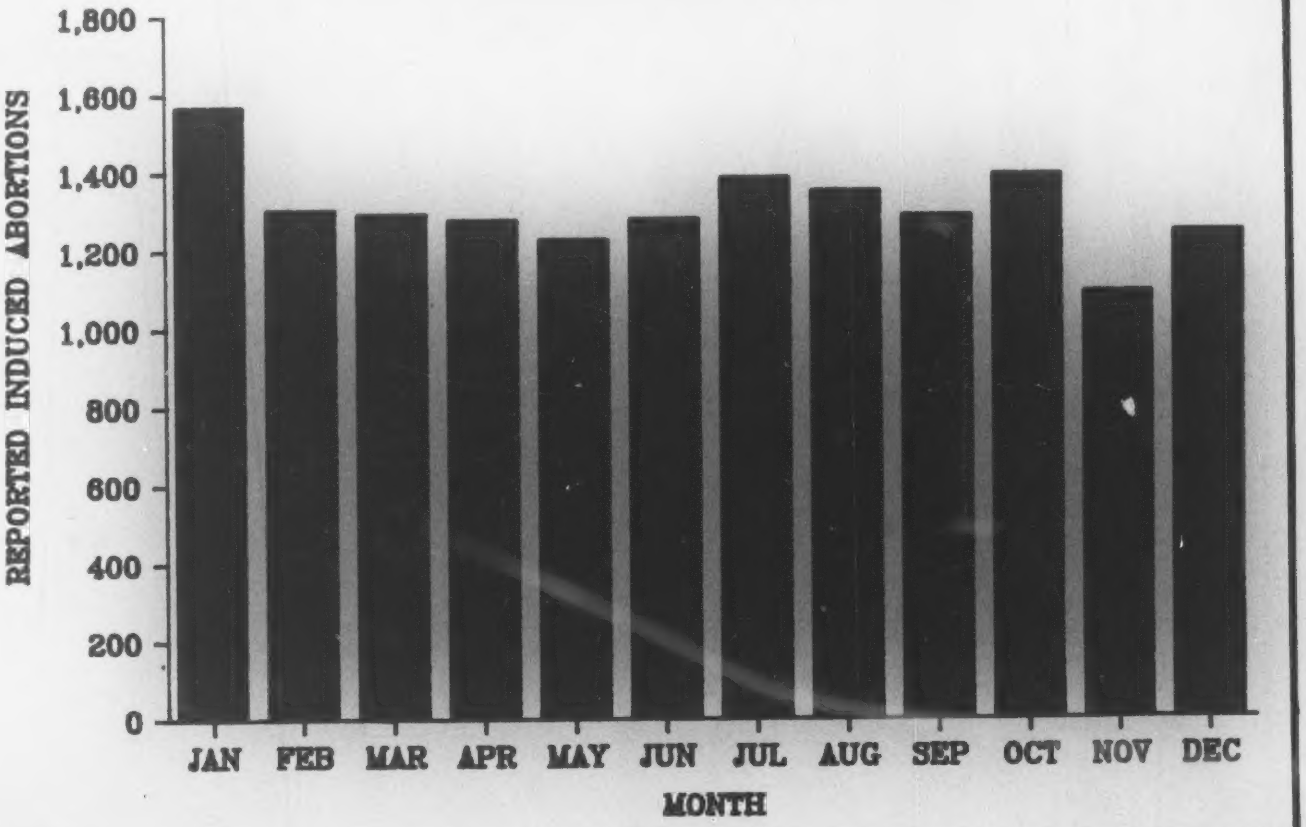


FIGURE 6

REPORTED INDUCED ABORTIONS
MINNESOTA, 1977 – 1986

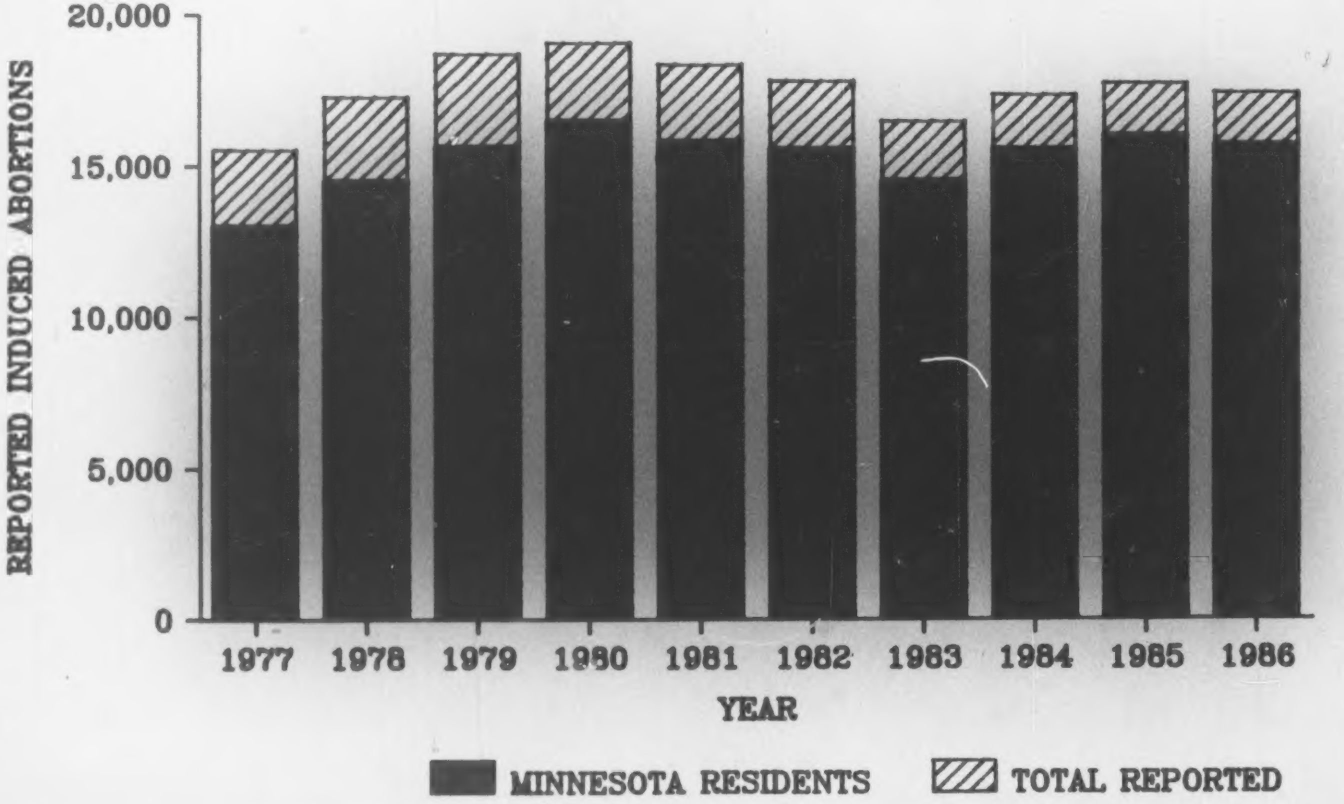
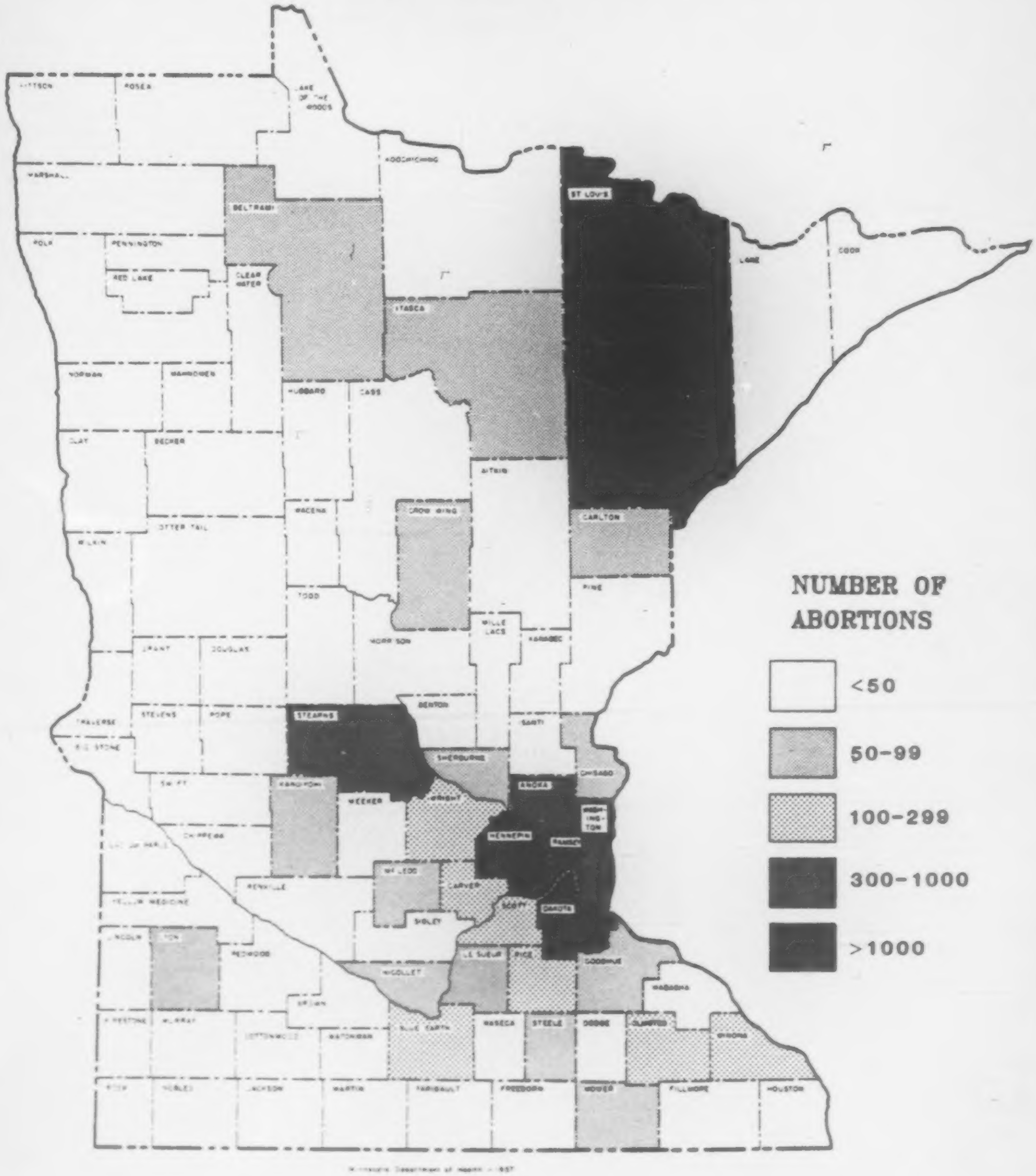


FIGURE 7

REPORTED INDUCED ABORTIONS BY COUNTY OF RESIDENCE, 1986


KITTSON
ROSEAU
LAKE OF THE WOODS
KOOCHICHING
MARSHALL
BELTRAMI
ST LOUIS
LAKE
COOK
POLK
PENNINGTON
RED LAKE
CLEARWATER
ITASCA
NORMAN
MAHNOMEN
HUBBARD
CASS
CLAY
BECKER
AITKIN
CARLTON
WADENA
CROW WING
OTTER TAIL
WILKIN
TODD
PINE
MILLE LACS
KANABEC
GRANT
DOUGLAS
MORRISON
TRAVERSE
STEVENS
POPE
STEARNS
BENTON
ISANTI
BIG STONE
SHERBURNE
CHISAGO
SWIFT
KANDIYOHI
MEEKER
WRIGHT
ANOKA
WASHINGTON
LAC QUI PARLE
CHIPPEWA
HENNEPIN
RAMSEY
McLEOD
CARVER
YELLOW MEDICINE
RENVILLE
SIBLEY
SCOTT
DAKOTA
LINCOLN
LYON
REDWOOD
NICOLLET
LE SUEUR
RICE
GOODHUE
WABASHA
BROWN
PIPESTONE
MURRAY
COTTONWOOD
WATONWAN
BLUE EARTH
WASECA
STEELE
DODGE
OLMSTED
WINONA
ROCK
NOBLES
JACKSON
MARTIN
FARIBAULT
FREEBORN
MOWER
FILLMORE
HOUSTON
NUMBER OF ABORTIONS
<50
50-99
100-299
300-1000
>1000

Minnesota Department of Health – 1987

Table 32
REPORTED INDUCED ABORTIONS OCCURRING IN MINNESOTA TO NON-MINNESOTA RESIDENTS BY STATE OR COUNTRY OF RESIDENCE, 1986

State or Foreign Country of Residence	Number	Percent
Total	1,667	100.0
Illinois	15	0.9
Iowa	95	5.7
Michigan	61	3.7
North Dakota	86	5.2
South Dakota	103	6.2
Wisconsin	1,052	63.1
Other U.S. States	71	4.3
Canada	120	7.2
Other Foreign Countries and Unknown	64	3.8

Fertility

Table 33
TOTAL REPORTED PREGNANCIES BY OUTCOME TYPE AND RATE
MINNESOTA RESIDENTS, 1975-1986

	Outcome Type					
Year	Live Births	Reported[1] Induced Abortions	Fetal[2] Deaths	Total[3] Reported Pregnancies	Female Population Ages 15-44	Pregnancy[4] Rate
1975	56,463	8,129	479	65,071	863,882	75.3
1976	56,599	11,109	487	68,195	886,997	76.8
1977	60,284	13,024	471	73,779	902,754	81.7
1978	61,998	14,178	468	76,644	923,409	83.0
1979	65,325	15,639	445	81,409	947,367	85.9
1980	67,843	16,490	449	84,782	958,773	88.4
1981	68,652	15,821	461	84,934	967,087	87.8
1982	68,512	15,559	429	84,500	977,905	86.4
1983	65,559	14,517	457	80,530	981,287	82.0
1984	66,715	15,556	465	82,736	983,004	84.1
1985	67,412	16,002	439	83,853	991,671	84.5
1986	65,766	15,716	400	81,882	997,501	82.1

---

[1] Includes only those reported induced abortions occurring in Minnesota to Minnesota residents
[2] Includes reported fetal deaths of 20 weeks or more gestation
[3] Excludes miscarriages
[4] Number of pregnancies per 1,000 women in the population of ages 15 through 44

Table 34
PREGNANCY OUTCOMES AND PREGNANCY RATES* BY AGE OF WOMAN
MINNESOTA RESIDENTS, SELECTED YEARS, 1980-1986

	Age of Woman									
Year	Total**	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+	Unknown
1980										
Live Births	67,843	45	1,988	5,000	22,546	24,035	11,300	2,485	437	7
Fetal Deaths	449	1	13	38	140	131	79	29	9	9
Induced Abortions	16,490	104	2,223	3,380	6,054	2,823	1,219	491	183	13
Total Pregnancies***	84,782	150	4,224	8,418	28,740	26,989	12,598	3,005	629	29
Age Specific Pregnancy Rate****	80.2	1.5	36.9	101.3	144.6	149.3	80.5	24.4	6.2	-
1983										
Live Births	65,559	53	1,521	3,756	19,844	23,734	13,042	3,154	451	4
Fetal Deaths	457	2	15	35	137	134	85	36	5	8
Induced Abortions	14,517	96	1,337	2,548	5,488	2,871	1,359	607	176	35
Total Pregnancies***	80,533	151	2,873	6,339	25,469	26,739	14,486	3,797	632	47
Age Specific Pregnancy Rate****	74.8	1.6	27.4	82.9	128.3	141.0	87.0	27.7	5.8	-
1984										
Live Births	66,715	50	1,604	3,608	19,417	24,348	13,676	3,523	478	11
Fetal Deaths	465	-	19	24	136	139	106	31	6	4
Induced Abortions	15,556	90	1,305	2,586	6,032	3,111	1,575	627	212	18
Total Pregnancies***	82,736	140	2,928	6,218	25,585	27,598	15,357	4,181	696	33
Age Specific Pregnancy Rate****	77.1	1.6	30.7	89.1	134.7	143.4	89.4	28.6	5.9	-
1985										
Live Births	67,412	55	1,518	3,509	18,968	24,797	14,283	3,804	467	11
Fetal Deaths	439	-	15	26	109	155	93	25	8	8
Induced Abortions	16,002	103	1,467	2,531	6,067	3,216	1,641	758	198	21
Total Pregnancies***	83,853	158	3,000	6,066	25,144	28,168	16,017	4,587	673	40
Age Specific Pregnancy Rate****	77.5	1.7	31.2	86.3	121.2	145.0	92.3	31.1	5.7	-
1986										
Live Births	65,766	54	1,572	3,179	17,485	24,491	14,381	4,086	509	9
Fetal Deaths	400	-	15	25	109	125	83	24	8	11
Induced Abortions	15,716	86	1,459	2,372	5,724	3,323	1,682	845	185	40
Total Pregnancies***	81,882	140	3,046	5,576	23,318	27,939	16,146	4,955	702	60
Age Specific Pregnancy Rate****	75.2	1.5	30.0	75.5	115.8	146.2	94.9	34.6	6.0	-

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* Rate comparisons among years must be interpreted cautiously due to adjustments made in the 1986 age-specific population estimates.

** For purposes of this table total pregnancy rates are calculated per 1,000 female population of ages 12 through 44.

*** Does not include miscarriages.

**** Total pregnancies within a specified age group per 1,000 female population within the same age group.

Infant Mortality and Fetal Deaths

Table 35
INFANT, NEONATAL AND POSTNEONATAL DEATHS BY CAUSE
MINNESOTA RESIDENTS, 1986

		Neonatal				
Causes of Death	Infant Deaths	Total	Under 1 Day	1-6 Days	7-27 Days	Post-neonatal
Total All Causes	606	365	187	97	81	241
Certain conditions originating in the perinatal period	227	213	124	57	32	14
Respiratory distress syndrome	56	53	23	21	9	3
Maternal conditions	45	45	40	4	1	-
Selected respiratory conditions of fetus and newborn	32	24	12	7	5	8
Short gestation and low birth weight	29	29	26	2	1	-
Intrauterine hypoxia and birth asphyxia	18	16	6	9	1	2
Birth trauma	6	6	1	3	2	-
Fetal and neonatal hemorrhage	5	5	-	2	3	-
Congenital anomalies	158	119	56	33	30	39
Of heart	43	24	4	7	13	19
Chromosomal anomalies	24	17	4	4	9	7
Of respiratory system	21	19	10	8	1	2
Anencephalus and similar anomalies	17	17	13	3	1	-
Of urinary system	11	11	9	1	1	-
Symptoms, signs, and ill-defined conditions	121	4	-	-	4	117
Sudden infant death syndrome	120	4	-	-	4	116
Diseases of the respiratory system	18	5	1	2	2	13
Pneumonia and influenza	10	1	-	-	1	9
Diseases of the circulatory system	17	6	-	2	4	11
Unintentional injury	16	2	-	-	2	14
Motor vehicle	4	2	-	-	2	2
Mechanical suffocation	4	-	-	-	-	4
Diseases of the digestive system	11	2	2	-	-	9
Infective and parasitic diseases	9	3	-	-	3	6
Septicemia	4	-	-	-	-	4
Diseases of the nervous system and sense organs	8	1	-	-	1	7
Neoplasms	6	1	-	1	-	5
Malignant neoplasms	2	-	-	-	-	2
Endocrine, nutritional, and metabolic diseases and immunity disorders	6	4	1	-	3	2
Diseases of the blood and blood forming organs	3	2	1	1	-	1
Diseases of the musculoskeletal system and connective tissue	2	2	1	1	-	-
Homicide	2	-	-	-	-	2
Injury undetermined whether unintentionally or purposely inflicted	2	1	1	-	-	1

Table 36
FETAL DEATHS OF 20 WEEKS AND OVER BY CAUSE AND WEIGHT OF FETUS
MINNESOTA RESIDENTS, 1986

Cause of Death	Total Fetal Deaths	Weight in Grams									
		999 or Less	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 to 4,499	4,500 and Over	Weight Unknown
Total - All Causes	400	114	35	16	27	31	42	17	5	2	111
Complications of Placenta, Cord, or Membranes	152	33	16	5	9	11	17	11	1	2	47
Congenital Anomalies	53	19	8	3	2	3	3	-	1	-	14
Anencephalus and Similar Anomalies	(13)	(5)	(2)	(-)	(-)	(1)	(-)	(-)	(-)	(-)	(5)
Hydrocephalus	(3)	(1)	(-)	(-)	(-)	(-)	(2)	(-)	(-)	(-)	(-)
Maternal Conditions Related to Pregnancy	38	24	-	-	1	-	-	-	1	-	12
Maternal Conditions Unrelated to Pregnancy	18	6	-	2	1	1	2	-	-	-	6
Short Gestation and Low Birthweight	11	6	-	-	-	-	-	-	-	-	5
Other Diseases or Conditions Specific to the Perinatal Period	9	-	2	-	2	1	-	-	-	-	4
Hypoxia and Birth Asphyxia	4	-	-	1	-	-	-	-	-	-	3
Syndrome of "Infant of a Diabetic Mother"	3	-	-	-	-	-	1	1	-	-	1
Hemolytic Disease of Fetus	3	1	1	-	-	-	-	-	-	-	1
Complications of Labor and Delivery	2	1	-	1	-	-	-	-	-	-	-
Malpresentation of Fetus	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Slow Fetal Growth and Fetal Malnutrition	2	-	-	-	1	-	-	-	-	-	1
Other Diseases Not Specific to Perinatal Period	2	-	-	-	-	-	-	-	-	-	2
Ill-defined Conditions Originating in Perinatal Period	103	24	8	4	11	15	19	5	2	-	15

General Mortality

Every day in 1986, residents of Minnesota experienced an average ~~of~~:

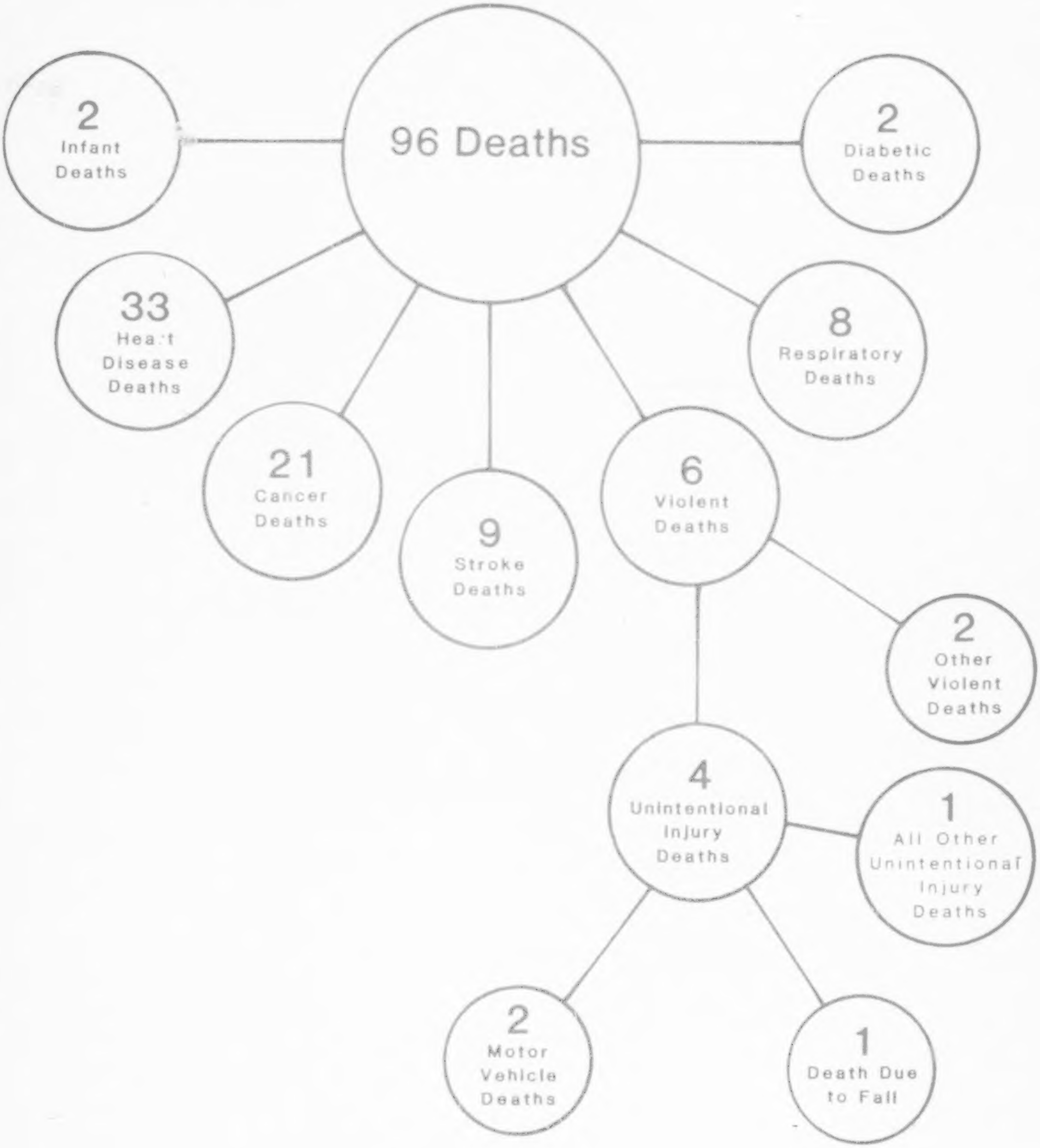
96 Deaths
2 Infant Deaths
2 Diabetic Deaths
33 Heart Disease Deaths
8 Respiratory Deaths
21 Cancer Deaths
9 Stroke Deaths
6 Violent Deaths
2 Other Violent Deaths
4 Unintentional Injury Deaths
1 All Other Unintentional Injury Deaths
2 Motor Vehicle Deaths
1 Death Due to Fall

Table 37
DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH
MINNESOTA, 1986

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	35,245	27,675	5,982	1,588	5,982	1,413	35,070
Aitkin	135	115	19	1	45	4	164
Anoka	915	615	285	15	262	13	890
Becker	247	209	33	5	41	45	295
Beltrami	272	230	39	3	37	21	288
Benton	172	141	31	-	107	4	252
Big Stone	83	60	13	10	15	6	81
Blue Earth	490	365	122	3	50	5	420
Brown	272	194	74	4	46	7	247
Carlton	293	245	46	2	48	4	297
Carver	229	144	82	3	110	-	254
Cass	171	141	25	5	154	12	307
Chippewa	151	125	25	1	41	3	169
Chisago	191	160	28	3	64	20	244
Clay	264	220	27	17	20	154	394
Clearwater	102	93	9	-	10	1	104
Cook	49	43	3	3	10	5	58
Cottonwood	135	122	12	1	32	11	165
Crow Wing	489	388	93	8	70	9	467
Dakota	751	605	120	26	415	32	1,052
Dodge	75	66	7	2	60	4	130
Douglas	301	251	50	-	38	4	293
Faribault	164	139	14	11	59	7	205
Fillmore	210	184	20	6	79	28	291
Freeborn	338	283	42	13	44	11	338
Goodhue	384	336	36	12	97	3	436
Grant	77	58	19	-	27	4	89
Hennepin	9,024	7,187	1,503	334	542	109	7,838
Minneapolis	4,446	2,807	1,448	191	1,053	56	3,916
Houston	113	98	11	4	5	58	161
Hubbard	187	127	52	8	21	17	165
Isanti	206	152	54	-	35	3	190
Itasca	384	319	57	8	81	8	408
Jackson	109	95	13	1	32	17	144
Kanabec	95	71	22	2	33	2	106
Kandiyohi	406	301	101	4	47	7	355
Kittson	100	76	24	-	4	16	96
Koochiching	108	98	8	2	36	5	139
Lac Qui Parle	113	106	3	4	29	2	137
Lake	100	94	6	-	15	2	111
Lake of the Woods	35	31	2	2	6	7	44
Le Sueur	150	126	23	1	94	6	226
Lincoln	95	67	17	11	9	8	84
Lyon	196	160	33	3	37	35	232
McLeod	279	209	68	2	66	5	280
Mahnomen	42	41	1	-	11	9	61
Marshall	76	68	6	2	65	18	151
Martin	259	217	22	20	38	16	271
Meeker	181	150	29	2	60	-	210
Mille Lacs	188	144	44	-	51	1	196
Morrison	228	197	27	4	56	5	258
Mower	328	304	23	1	92	21	417

Table 37

DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH, MINNESOTA, 1986 (CONT.)

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Murray	89	79	9	1	23	17	119
Nicollet	149	130	19	-	90	-	220
Nobles	176	144	21	11	21	39	204
Norman	90	84	5	1	22	24	130
Olmsted	1,471	531	459	481	37	12	580
Otter Tail	557	505	47	5	83	51	639
Pennington	227	150	75	2	15	7	172
Pine	131	112	19	-	105	7	224
Pipestone	111	96	13	2	10	31	137
Polk	345	275	45	25	20	95	390
Pope	146	133	13	-	24	-	157
Ramsey	4,321	3,455	721	145	441	81	3,977
St. Paul	3,402	2,330	958	114	355	47	2,732
Red Lake	32	30	2	-	32	12	74
Redwood	190	151	39	-	71	5	227
Renville	160	134	26	-	72	3	209
Rice	370	310	55	5	57	4	371
Rock	82	67	13	2	7	19	93
Roseau	99	98	1	-	17	18	133
St. Louis	2,478	2,110	184	184	102	33	2,245
Duluth	1,438	1,027	240	171	97	23	1,147
Scott	280	187	92	1	66	4	257
Sherburne	209	108	100	1	142	5	255
Sibley	107	100	6	1	62	-	162
Stearns	827	519	297	11	111	6	636
Steele	198	180	16	2	70	2	252
Stevens	106	92	11	3	16	1	109
Swift	118	105	13	-	47	4	156
Todd	135	125	9	1	87	6	218
Traverse	63	40	11	12	18	12	70
Wabasha	185	140	28	17	49	3	192
Wadena	232	151	80	1	22	19	192
Waseca	135	123	12	-	68	2	193
Washington	411	338	68	3	238	45	621
Watonwan	116	97	19	-	42	3	142
Wilkin	109	49	4	56	8	10	67
Winona	383	322	22	39	41	29	392
Wright	358	302	54	2	160	2	464
Yellow Medicine	163	132	28	3	34	6	172
Unknown	-	-	-	-	5	-	5

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	[illegible]*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3,046	4,139	4,730	[illegible]	9,833
		M	[illegible]**	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3,510
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6,323
001-139 I.	INFECTIOUS AND PARASITIC DISEASES	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42	107
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20	42
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
001-009	Intestinal Infectious Diseases	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	NEOPLASMS	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Malignant Neoplasms	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200-208	Of Lymphatic and Hematopoietic Tissue	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
201	Hodgkin's Disease	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
204-208	Leukemia	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
210-239	Benign Neoplasms and Neoplasms of Uncertain Behavior	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
240-279	III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES AND IMMUNITY DISORDERS	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250	Diabetes Mellitus	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
260-269	Nutritional Deficiencies	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
280-289	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Anemias	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
290-319	V. MENTAL DISORDERS	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
320-389	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	[illegible] *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,299	2,203	3,045	4,135	4,736	5,343	9,833
		M	[illegible] **	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	582	1,475	1,892	2,496	2,617	2,568	3,510
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	808	1,153	1,641	2,119	2,775	6,323
390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	324	[illegible]	948	1,280	1,882	2,385	2,863	5,818
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	623	875	1,168	1,327	1,311	1,892
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	325	405	714	1,058	1,552	3,926
390-398, 402, 404-429	Diseases of the Heart	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,458	1,778	2,077	3,927
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	548	726	912	1,027	977	1,337
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	546	751	1,100	2,590
390-398	Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	11	16	20	18
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	4
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12	16	14
402, 404	Hypertensive Heart With or Without Renal Disease	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	36	36	83
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	14	14
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	22	69
410-414	Ischemic Heart Disease	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,440	2,515
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	690	889
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	462	[illegible]	750	1,626
410	Acute Myocardial Infarction	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
411	Other Acute and Subacute Forms	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8
412	Old Myocardial Infarction	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
413	Angina Pectoris	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
414	Chronic Ischemic Heart Disease	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
415-417	Pulmonary Heart Disease	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24
420-429	Other Forms of Heart Disease	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

ICD Designation No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
451	Phlebitis and Thrombophlebitis	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
466	Acute Bronchitis and Bronchiolitis	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
480-487	Pneumonia and Influenza	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
480-486	Pneumonia	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
487	Influenza	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
490-491	Bronchitis, Chronic and Unspecified	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
492	Emphysema	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
493	Asthma	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
520-579	IX. DISEASES OF THE DIGESTIVE SYSTEM	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
531-533	Ulcer of the Stomach and Duodenum	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
540-543	Appendicitis	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550-553, 560	Hernia and Other Obstruction	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
571	Chronic Liver Disease and Cirrhosis	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
574-576	Cholelithiasis and Other Disorders of Gallbladder and Biliary Tract	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	T M F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1986 (CONT.)

ICD Designation No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	[illegible] *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible] **	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Motor Vehicle	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Falls	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Other Unintentional Injury [illegible]	T	[illegible] **	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible] **	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Suicide and Self-Inflicted Injury	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Homicide and Injury Purposely Inflicted by Other Persons	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Legal Intervention	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Injury Undetermined Whether Unintentionally or Purposely Inflicted	T	[illegible] *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Injury Resulting from Operations of War	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

*Includes unknown age and sex

**Includes unknown age

Table 39
DEATHS DUE TO SELECTED CAUSES BY RACE
MINNESOTA RESIDENTS, 1986

	Total	White	Black	Indian	Other	Unknown
Total - All Causes	35,070	34,335	367	220	137	11
Infective-parasitic	362	348	7	6	1	-
Tuberculosis	9	9	-	-	-	-
Neoplasms - malignant	7,670	7,546	68	24	32	-
Digestive	2,036	2,004	14	5	13	-
Respiratory	1,720	1,679	20	13	8	-
Breast	693	683	5	3	2	-
Genital	954	943	9	-	2	-
Urinary	369	366	2	1	-	-
Leukemia	344	339	2	1	2	-
Diabetes mellitus	611	591	12	7	1	-
Major cardiovascular	16,371	16,165	109	49	45	3
Rheumatic	117	114	1	-	2	-
Hypertensive heart	201	197	4	-	-	-
Ischemic heart	8,449	8,355	40	25	28	1
Other heart	3,123	3,082	20	12	8	1
Hypertension	194	189	4	1	-	-
Cerebrovascular	3,107	3,066	27	8	5	1
Arteriosclerosis	482	480	-	1	1	-
Respiratory	3,026	2,967	29	12	18	-
Pneumonia	1,366	1,335	17	7	7	-
Influenza	134	134	-	-	-	-
Bronchitis	58	58	-	-	-	-
Emphysema	166	165	-	-	1	-
Asthma	82	79	-	-	3	-
Ulcer of stomach & duodenum	94	93	1	-	-	-
Hernia & intestinal obstruction	114	112	-	1	1	-
Chronic liver disease & cirrhosis	303	289	3	9	2	-
Nephritis, nephrotic syndrome & nephrosis	307	295	6	4	2	-
Kidney infections	19	19	-	-	-	-
Pregnancy, childbirth & puerperium	1	1	-	-	-	-
Congenital anomalies	239	224	4	4	7	-
Certain conditions originating in the perinatal period	228	208	12	2	6	-
Ill-defined	852	806	27	16	3	-
Other diseases	2,717	2,667	25	17	8	-
Unintentional Injury	1,464	1,375	30	49	3	7
Motor vehicle	624	592	10	17	3	2
Falls	289	287	-	2	-	-
Suicide	536	511	7	10	8	-
Homicide	112	76	26	10	-	-
Other violent deaths	44	42	1	-	-	1

Table 40
FIFTEEN LEADING CAUSES OF DEATH, DEATH RATES PER 100,000 POPULATION AND PERCENT OF TOTAL DEATHS, MINNESOTA RESIDENTS, 1986

Cause of Death	Number of Deaths	Death Rates	Percent of Total
Heart Disease (390-398, 402, 404-429)	12,126	287.8	34.6
Cancer (Malignant Neoplasms) (140-208)	7,670	182.0	21.9
Cerebrovascular Disease (430-438)	3,107	73.7	8.9
Pneumonia and Influenza (480-487)	1,500	35.6	4.3
Pneumonia (480-486)	(1,366)	(32.4)	(3.9)
Influenza (487)	(134)	(3.2)	(0.4)
Unintentional Injury (800-949)	1,464	34.7	4.2
Motor Vehicle (810-825)	(624)	(14.8)	(1.8)
Falls (880-888)	(289)	(6.9)	(0.8)
Chronic Obstructive Pulmonary Diseases and Allied Conditions (490-496)	1,158	27.5	3.3
Diabetes Mellitus (250)	611	14.5	1.7
Suicide (950-959)	536	12.7	1.5
Arteriosclerosis (440)	482	11.4	1.4
Nephritis, Nephrotic Snydrome, and Nephrosis (580-589)	307	7.3	0.9
Chronic Liver Disease and Cirrhosis (571)	303	7.2	0.9
Congenital Anomalies (740-759)	239	5.7	0.7
Certain Conditions Originating in the Perinatal Period (760-779)	228	5.4	0.7
Septicemia (038)	208	4.9	0.6
Hypertensive Disease Without Mention of Heart Disease (401, 403)	194	4.6	0.6
All Other Causes	4,937	117.2	14.1
Total - All Causes	35,070	832.2	100.0

Table 41
LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS
MINNESOTA RESIDENTS, 1986

	No. of Deaths	Per-cent	Age/Cause Specific Death Rate Per 100,000 Population
1-4 Years			
Total - all causes	102	100.0	36.8
Unintentional injury	44	43.1	15.9
Motor vehicle	(12)	(11.8)	(4.3)
Congenital anomalies	13	12.7	4.7
Diseases of the heart	5	4.9	1.8
Diseases of the nervous system and sense organs	5	4.9	1.8
Symptoms, signs and ill-defined conditions	5	4.9	1.8
5-9 Years			
Total - all causes	70	100.0	23.6
Unintentional injury	32	45.7	10.8
Motor vehicle	(14)	(20.0)	(4.7)
Malignant neoplasms	9	12.9	3.0
Diseases of the heart	5	7.1	1.7
Congenital anomalies	4	5.7	1.3
Homicide	4	5.7	1.3
10-14 Years			
Total - all causes	71	100.0	22.8
Unintentional injury	36	50.7	11.6
Motor vehicle	(22)	(31.0)	(7.1)
Suicide	7	9.9	2.2
Malignant neoplasms	5	7.0	1.6
Diseases of the heart	4	5.6	1.3
Endocrine, nutritional and metabolic diseases and immunity disorders	4	5.6	1.3
15-19 Years			
Total - all causes	296	100.0	83.2
Unintentional injury	156	52.7	43.8
Motor vehicle	(117)	(39.5)	(32.9)
Suicide	77	26.0	21.6
Malignant neoplasms	19	6.4	5.3
Homicide	12	4.1	3.4
Diseases of the heart	5	1.7	1.4
Congenital anomalies	5	1.7	1.4
Symptoms, signs and ill-defined conditions	5	1.7	1.4
20-34 Years			
Total - all causes	897	100.0	79.0
Unintentional injury	339	37.8	29.9
Motor vehicle	(209)	(23.3)	(18.4)
Suicide	159	17.7	14.0
Malignant neoplasms	114	12.7	10.0
Diseases of the heart	61	6.8	5.4
Homicide	43	4.8	3.8
35-49 Years			
Total - all causes	1,388	100.0	195.2
Malignant neoplasms	396	28.5	55.7
Diseases of the heart	317	22.8	44.6
Unintentional injury	171	12.3	24.0
Motor vehicle	(94)	(6.8)	(13.2)
Suicide	113	8.1	15.9
Cerebrovascular disease	51	3.7	7.2
Chronic liver disease and cirrhosis	40	2.9	5.6
50-64 Years			
Total - all causes	4,542	100.0	839.7
Malignant neoplasms	1,757	38.7	324.8
Diseases of the heart	1,431	31.5	264.6
Cerebrovascular disease	169	3.7	31.2
Chronic obstructive pulmonary diseases and allied conditions	158	3.5	29.2
Unintentional injury	144	3.2	26.6
Motor vehicle	(56)	(1.2)	(10.4)
Chronic liver disease	104	2.3	19.2
65-74 Years			
Total - all causes	7,184	100.0	2,494.9
Diseases of the heart	2,503	34.8	869.2
Malignant neoplasms	2,225	31.0	772.7
Cerebrovascular disease	442	6.2	153.5
Chronic obstructive pulmonary diseases and allied conditions	355	4.9	123.3
Diabetes	158	2.2	54.9
Symptoms, signs and ill-defined conditions	156	2.2	54.2
75 Years and Over			
Total - all causes	19,912	100.0	8,606.4
Diseases of the heart	7,780	39.1	3,362.7
Malignant neoplasms	3,139	15.8	1,356.7
Cerebrovascular disease	2,419	12.1	1,045.5
Pneumonia and influenza	1,260	6.3	544.6
Chronic obstructive pulmonary diseases and allied conditions	629	3.2	271.9
Symptoms, signs and ill-defined conditions	465	2.3	201.0

Table 42
ACCIDENT FATALITIES OCCURRING IN MINNESOTA*
BY ACCIDENT CATEGORY** AND AGE GROUP***
1985 - 1986

TYPE OF ACCIDENT	1985 TOTAL	1986 TOTAL	1986 AGE GROUP <5	5-14	15-24	25-44	45-64	65+	Unknown Age
TOTAL ACCIDENTAL DEATHS	1,428	1,395	60	64	288	304	177	501	1
OCCUPATIONAL DEATHS	56	41	-	-	10	15	8	8	-
Agriculture	24	17	-	-	4	5	4	4	-
Mining, quarrying, oil and gas wells	-	-	-	-	-	-	-	-	-
Construction	16	8	-	-	2	6	-	-	-
Manufacturing, logging and lumber	7	7	-	-	2	1	1	3	-
Transportation and public utilities	3	4	-	-	-	3	1	-	-
Trade	-	1	-	-	-	-	1	-	-
Service	3	3	-	-	1	-	1	1	-
Government	-	-	-	-	-	-	-	-	-
Other and unspecified industry	3	1	-	-	1	-	-	-	-
HOME DEATHS	257	296	32	19	28	53	34	130	-
Poisonings (except gas)	31	16	-	-	1	11	4	-	-
Poisonings by gases and vapors	17	23	-	3	1	10	2	7	-
Falls	93	112	1	-	1	8	6	96	-
Fires	35	70	16	8	13	12	9	12	-
Drowning	14	10	3	-	4	-	2	1	-
Suffocation, ingested food or object	8	3	-	-	-	1	1	1	-
Suffocation, mechanical	17	13	6	3	-	1	1	2	-
Firearms	14	6	-	1	3	2	-	-	-
Other and unspecified home accidents	28	43	6	4	5	8	9	11	-
MOTOR VEHICLE DEATHS	627	586	14	35	205	164	79	89	-
Injury to pedestrian	70	73	5	9	14	16	7	22	-
Injury to pedal cyclist	10	12	-	7	3	-	2	-	-
Injury to rider of animal or occupant of animal-drawn vehicle	-	-	-	-	-	-	-	-	-
Collision with railroad train	13	13	-	3	4	2	1	3	-
Collision with other motor vehicle	319	248	4	10	78	73	38	45	-
Collision with fixed object	44	25	-	-	10	7	6	2	-
Noncollision	141	171	1	3	82	57	18	10	-
Other and unspecified accidents	30	44	4	3	14	9	7	7	-
PUBLIC NON-MOTOR VEHICLE	334	278	8	10	40	60	39	120	1
Railroad (not with motor vehicle)	9	4	-	-	2	2	-	-	-
Other road vehicle (not with motor vehicle)	3	2	-	-	-	1	1	-	-
Water transportation	21	16	-	1	9	2	2	2	-
Air transportation	19	13	-	-	1	10	2	-	-
Falls	97	88	-	2	4	3	7	72	-
Fires	1	4	-	-	1	1	1	-	1
Drowning	36	53	4	4	11	17	13	4	-
Firearms	5	9	-	1	4	2	1	1	-
Other and unspecified public accidents	143	89	4	2	8	22	12	41	-
ACCIDENT TYPE UNKNOWN	154	194	6	-	5	12	17	154	-

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* Includes only those deaths for which the accident occurred in Minnesota.
** National Safety Council categories.
*** Age group applicable to 1986 only.

Table 43
DEATHS OCCURRING IN MINNESOTA BY CAUSE AND AUTOPSY STATUS
1986

Cause of Death	Total Deaths	Autopsy Status Number Performed	Number Not Performed	Number Not Stated	Percent Performed	Percent Not Performed	Percent Not Stated
Total - All Causes	35,245	4,936	25,252	5,057	14.0	71.6	14.3
I. Infectious and parasitic diseases	381	103	240	38	27.0	63.0	10.0
II. Neoplasms	7,877	677	6,028	1,172	8.6	76.5	14.9
III. Endocrine, nutritional, and metabolic diseases and immunity disorders	881	113	653	115	12.8	74.1	13.1
IV. Diseases of the blood and blood-forming organs	139	24	101	14	17.3	72.7	10.1
V. Mental disorders	490	43	370	77	8.8	75.5	15.7
VI. Diseases of the nervous system and sense organs	700	79	509	112	11.3	72.7	16.0
VII. Diseases of the circulatory system	16,469	1,897	12,067	2,505	11.5	73.3	15.2
VIII. Diseases of the respiratory system	3,011	281	2,259	471	9.3	75.0	15.6
IX. Diseases of the digestive system	1,162	275	735	152	23.7	63.3	13.1
X. Diseases of the genitourinary system	484	49	355	80	10.1	73.3	16.5
XI. Complications of pregnancy, childbirth, and the puerperium	1	-	1	-	0.0	100.0	0.0
XII. Diseases of the skin and subcutaneous tissue	32	3	25	4	9.4	78.1	12.5
XIII. Diseases of the musculoskeletal system and connective tissue	130	18	89	23	13.8	68.5	17.7
XIV. Congenital anomalies	274	134	123	17	48.9	44.9	6.2
XV. Certain conditions originating in the perinatal period	236	101	120	15	42.8	50.8	6.4
XVI. Symptoms, signs and ill-defined conditions	849	167	550	132	19.7	64.8	15.5
XVII. Injury and poisoning	2,129	972	1,027	130	45.7	48.2	6.1

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1986

		State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
DEATHS - Total		35,070⁺	164	890	295	288	252	83	420
Rate:	Age & sex adjusted	8.3	7.6	9.8	8.3	8.8	11.7	6.8	8.1
Rate:	Sex adjusted-age specific								
	Under 5 years	2.1	1.0	1.5	3.1	3.7	2.1	0.0	2.5
	5-14 years	0.2	0.5	0.2	0.0	0.2	0.0	0.0	0.3
	15-24 years	0.8	0.0	0.8	1.7	1.5	0.4	0.8	0.6
	25-44 years	1.1	1.0	0.9	1.2	1.7	1.3	0.0	1.0
	45-64 years	7.0	8.8	7.2	5.5	7.9	6.9	4.5	6.6
	65 years and over	52.2	45.3	64.7	52.0	51.7	80.1	47.3	51.4
Sex:	Male	18,183	89	481	162	160	125	46	212
	Female	16,886	75	409	133	128	127	37	208
Race:	White	34,335	162	885	284	244	252	83	416
	Black	367	-	-	-	-	-	-	-
	Indian	220	2	1	11	43	-	-	-
	Other & Unknown	54	-	2	-	-	-	-	4
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	362	-	11	5	1	1	1	1
010-018	Tuberculosis	9	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	7,670	34	242	48	62	46	18	93
150-159	Digestive	2,036	9	62	14	13	18	4	19
160-165	Respiratory	1,720	11	67	11	17	8	2	26
174-175	Breast	693	-	22	4	3	7	2	10
179-187	Genital	954	4	19	8	4	3	2	15
188-189	Urinary	369	3	13	2	9	1	1	5
204-208	Leukemia	344	-	14	-	-	1	3	4
250	Diabetes mellitus	611	2	17	8	2	4	4	5
390-448	Major cardiovascular	16,371	90	384	138	129	136	40	190
390-398	Rheumatic heart	117	-	4	1	1	2	-	-
402,404	Hypertensive heart	201	-	5	1	-	1	-	3
410-414	Ischemic heart	8,449	58	196	69	65	85	25	110
420-429	Other heart	3,123	8	80	19	31	17	9	21
400-401, & 403	Hypertension	194	2	3	-	-	-	-	4
430-438	Cerebrovascular	3,107	13	61	34	23	26	5	37
440	Arteriosclerosis	482	6	16	7	5	2	-	8
460-519	Respiratory	3,026	15	63	29	23	23	3	56
480-486	Pneumonia	1,366	7	28	18	11	14	2	20
487	Influenza	134	1	2	-	2	1	-	9
490-491	Bronchitis	58	1	-	1	-	-	-	2
492	Emphysema	166	1	3	1	1	1	-	3
493	Asthma	82	-	2	-	-	-	-	3
531-533	Ulcer of stomach and duodenum	94	-	2	-	1	2	2	-
550-553, & 560	Hernia & intestinal obstruction	114	-	1	1	2	1	1	1
571	Chronic liver disease and cirrhosis	303	[illegible]	12	1	3	-	-	7
580-589	Nephritis, nephrotic syndrome & nephrosis	307	1	2	3	4	2	3	1
590	Kidney infection	19	-	-	-	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	1	-	-	-	-	-	-	-
740-759	Congenital anomalies	239	1	6	2	1	1	-	5
560-779	Perinatal conditions	228	-	11	2	1	1	-	3
780-799	Ill-defined	852	1	12	10	5	3	-	6
Residual	Other diseases	2,717	12	53	26	18	22	7	26
E800-949	Unintentional injury	1,464	5	44	20	24	7	3	13
E810-825	Motor vehicle	624	2	25	7	15	6	-	6
E880-888	Falls	289	-	2	2	4	-	3	3
E950-959	Suicide & self-inflicted injury	536	2	26	1	6	2	-	9
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	112	-	3	1	5	-	-	1
E980-999	Other violent deaths	44	-	1	-	-	1	1	3

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1986 (CONT.)

		Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water
DEATHS - Total		247	297	254	307	169	244	394	106
Rate:	Age & sex adjusted	6.6	8.6	8.6	10.0	8.4	8.5	8.7	8.4
Rate:	Sex adjusted-age specific								
	Under 5 years	2.3	4.0	1.8	3.1	0.8	2.8	2.9	1.4
	5-14 years	0.0	0.7	0.1	0.3	0.9	0.4	0.0	0.0
	15-24 years	0.4	0.6	1.3	2.4	1.4	0.4	0.4	0.7
	25-44 years	0.5	0.7	1.1	1.8	0.5	0.6	1.7	0.4
	45-64 years	5.5	8.8	3.7	10.1	5.8	10.6	8.2	6.4
	65 years and over	43.0	51.6	58.4	56.7	55.1	49.4	52.7	56.4
Sex:	Male	135	176	154	188	80	129	201	53
	Female	112	121	100	119	89	115	193	53
Race:	White	247	284	254	287	169	241	392	100
	Black	-	-	-	-	-	-	-	-
	Indian	-	12	-	20	-	-	1	6
	Other & Unknown	-	1	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	5	-	2	5	3	3	4	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	57	59	47	70	33	60	83	22
150-159	Digestive	22	12	10	22	11	21	23	3
160-165	Respiratory	9	18	9	22	5	15	16	6
174-175	Breast	6	3	3	7	6	4	6	2
179-187	Genital	6	8	9	7	3	6	12	5
188-189	Urinary	1	4	1	3	1	4	3	1
204-208	Leukemia	2	1	5	1	1	1	7	-
250	Diabetes mellitus	7	4	6	6	2	1	6	1
390-448	Major cardiovascular	122	153	122	137	86	118	195	60
390-398	Rheumatic heart	-	3	3	2	-	-	3	1
402,404	Hypertensive heart	-	1	1	-	3	3	2	-
410-414	Ischemic heart	65	79	68	62	46	50	76	34
420-429	Other heart	24	24	19	29	16	25	56	7
400-401, & 403	Hypertension	1	-	1	5	-	1	1	-
430-438	Cerebrovascular	20	27	23	29	17	31	36	15
440	Arteriosclerosis	8	15	3	6	1	4	13	2
460-519	Respiratory	21	35	21	23	22	13	36	11
480-486	Pneumonia	6	14	11	8	7	5	17	6
487	Influenza	1	1	-	2	10	-	1	-
490-491	Bronchitis	2	-	-	-	1	1	1	-
492	Emphysema	2	8	-	-	1	-	1	1
493	Asthma	-	-	-	-	-	2	-	-
531-533	Ulcer of stomach and duodenum	1	-	-	-	1	1	-	1
550-553, & 560	Hernia & intestinal obstruction	1	-	1	1	-	2	1	-
571	Chronic liver disease and cirrhosis	3	1	2	6	-	4	1	1
580-589	Nephritis, nephrotic syndrome & nephrosis	6	1	-	3	-	4	4	1
590	Kidney infection	-	-	-	-	-	-	1	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	2	2	1	-	3	4	-
760-779	Perinatal conditions	2	2	3	1	-	-	5	1
780-799	Ill-defined	1	1	7	9	-	2	4	-
Residual	Other diseases	16	26	13	21	15	21	23	4
E800-949	Unintentional injury	4	11	23	17	5	11	19	2
E810-825	Motor vehicle	2	3	12	10	3	3	7	-
E880-888	Falls	-	1	4	-	1	2	6	-
E950-959	Suicide & self-inflicted injury	1	2	5	4	2	-	7	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	3	-	1	-	-
E980-999	Other violent deaths	-	-	-	-	-	-	1	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fill-more
DEATHS - Total		58	165	467	1,052	130	293	205	291
Rate:	Age & sex adjusted	11.4	7.7	7.9	8.6	8.2	7.5	7.1	9.1
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	3.4	1.4	1.6	2.0	2.0	1.3	4.4
	5-14 years	1.6	0.6	0.0	0.1	0.7	0.5	0.0	0.3
	15-24 years	3.6	0.5	0.9	0.6	0.0	0.8	0.0	1.6
	25-44 years	1.6	0.6	1.7	0.9	0.9	1.1	0.7	0.8
	45-64 years	10.4	4.7	6.7	6.0	8.3	5.8	4.9	7.1
	65 years and over	67.1	50.6	48.3	57.1	50.7	47.2	47.8	56.0
Sex:	Male	33	86	234	552	66	155	93	161
	Female	25	79	233	500	64	138	112	130
Race:	White	53	165	465	1,040	130	292	205	291
	Black	-	-	1	3	-	-	-	-
	Indian	3	-	1	-	-	-	-	-
	Other & Unknown	2	-	-	2	-	1	-	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	3	2	14	7	1	2	4	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	13	32	89	259	35	60	52	66
150-159	Digestive	6	7	20	65	8	19	16	22
160-165	Respiratory	1	4	22	58	3	9	11	13
174-175	Breast	2	3	3	31	3	3	8	3
179-187	Genital	2	6	19	23	6	6	4	7
188-189	Urinary	-	3	4	15	2	5	4	5
204-208	Leukemia	1	4	2	9	2	5	1	3
250	Diabetes mellitus	1	1	5	21	7	4	2	2
390-448	Major cardiovascular	18	88	236	436	50	150	96	150
390-398	Rheumatic heart	1	-	-	2	1	1	1	-
402,404	Hypertensive heart	-	3	2	7	-	-	2	-
410-414	Ischemic heart	7	49	118	222	15	70	53	99
420-429	Other heart	5	20	58	77	15	41	21	19
400-401, & 403	Hypertension	-	1	1	11	-	-	1	1
430-438	Cerebrovascular	5	12	45	83	11	31	18	18
440.	Arteriosclerosis	-	2	4	14	3	2	-	10
460-519	Respiratory	3	16	41	91	6	27	19	32
480-486	Pneumonia	1	8	15	29	1	18	11	12
487	Influenza	1	3	-	2	-	-	3	2
490-491	Bronchitis	-	1	-	3	-	-	-	2
492	Emphysema	-	-	1	7	1	-	2	1
493	Asthma	-	-	2	5	1	-	-	-
531-533	Ulcer of stomach and duodenum	-	1	1	1	-	2	1	-
550-553, & 560	Hernia & intestinal obstruction	-	-	3	5	-	3	1	-
571	Chronic liver disease and cirrhosis	-	-	4	7	-	5	3	1
580-589	Nephritis, nephrotic syndrome & nephrosis	-	2	1	9	-	1	5	3
590	Kidney infection	2	-	-	1	2	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	1	2	12	1	-	-	-
760-779	Perinatal conditions	-	2	1	14	1	3	1	4
780-799	Ill-defined	3	2	9	37	9	5	1	7
Residual	Other diseases	6	14	29	78	8	16	13	13
E800-949	Unintentional injury	7	4	21	44	8	13	5	11
E810-825	Motor vehicle	5	1	6	27	6	6	4	7
E880-888	Falls	-	1	3	7	1	1	1	2
E950-959	Suicide & self-inflicted injury	1	-	11	25	1	1	2	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	3	-	1	-	-
E980-999	Other violent deaths	-	-	-	2	1	-	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Freeborn	Goodhue	Grant	Hennepin	Minn- eapolis	Houston	Hubbard
DEATHS - Total		338	436	89	7,838	3,916	161	165
Rate:	Age & sex adjusted	7.6	9.2	7.4	8.5	9.2	6.9	8.1
Rate:	Sex adjusted-age specific							
	Under 5 years	1.5	2.8	3.4	2.5	4.0	0.7	1.0
	5-14 years	0.2	0.0	0.9	0.3	0.5	0.7	0.0
	15-24 years	1.1	1.9	0.0	0.6	0.6	0.3	0.5
	25-44 years	0.8	0.7	0.0	1.3	1.8	1.0	2.2
	45-64 years	5.3	7.1	7.2	7.4	10.1	5.2	5.6
	65 years and over	49.7	58.6	46.6	52.0	51.9	44.6	51.3
Sex:	Male	184	207	51	3,812	1,911	92	93
	Female	154	229	38	4,026	2,005	69	72
Race:	White	337	432	89	7,489	3,611	160	164
	Black	-	-	-	237	217	1	-
	Indian	-	3	-	61	60	-	1
	Other & Unknown	1	-	-	18	28	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parastic	2	2	-	99	51	4	1
010-018	Tuberculosis	-	1	-	2	2	-	-
140-208	Neoplasms-malignant	68	96	20	1,784	821	42	34
150-159	Digestive	13	27	4	440	193	15	9
160-165	Respiratory	13	15	4	427	209	10	5
174-175	Breast	6	13	1	180	80	1	1
179-187	Genital	8	12	2	224	102	4	8
188-189	Urinary	3	5	1	70	38	4	4
204-208	Leukemia	5	4	1	81	32	2	1
250	Diabetes mellitus	3	8	1	161	78	1	3
390-448	Major cardiovascular	179	207	51	3,360	1,637	73	67
390-398	Rheumatic heart	4	-	-	33	21	-	2
402,404	Hypertensive heart	7	3	1	57	22	1	1
410-414	Ischemic heart	91	86	21	1,746	829	35	34
420-429	Other heart	37	37	11	549	306	17	11
400-401, & 403	Hypertension	2	1	-	69	40	-	2
430-438	Cerebrovascular	27	59	13	682	304	14	11
440	Arteriosclerosis	6	14	-	73	38	2	2
460-519	Respiratory	32	37	1	700	376	13	21
480-486	Pneumonia	12	19	1	317	179	9	16
487	Influenza	1	2	-	12	2	-	1
490-491	Bronchitis	2	-	-	13	9	1	-
492	Emphysema	2	8	-	49	22	1	-
493	Asthma	-	1	-	12	3	-	1
531-533	Ulcer of stomach and duodenum	2	-	1	18	15	-	-
550-553, & 560	Hernia & intestinal obstruction	1	-	-	17	9	1	-
571	Chronic liver disease and cirrhosis	3	2	-	76	40	-	4
580-589	Nephritis, nephrotic syndrome & nephrosis	6	8	-	65	43	2	4
590	Kidney infection	-	-	-	-	-	1	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	1	-	-	-
740-759	Congenital anomalies	-	5	-	67	27	2	1
760-779	Perinatal conditions	1	4	-	51	29	1	-
780-799	Ill-defined	2	5	-	207	146	1	9
Residual	Other diseases	22	43	8	696	362	15	10
E800-949	Unintentional Injury	10	14	7	324	162	3	7
E810-825	Motor vehicle	6	8	4	96	33	1	1
E880-888	Falls	2	3	-	106	61	-	2
E950-959	Suicide & self-inflicted injury	6	5	-	152	75	2	4
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	1	-	-	54	43	-	-
E980-999	Other violent deaths	-	-	-	6	2	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochi-iching
DEATHS - Total		190	408	144	106	355	96	139
Rate:	Age & sex adjusted	9.0	8.3	8.6	7.6	8.1	9.9	7.3
Rate:	Sex adjusted-age specific							
	Under 5 years	2.1	1.4	3.2	1.7	2.7	1.8	1.6
	5-14 years	0.0	0.1	0.0	0.5	0.2	0.0	0.0
	15-24 years	1.0	1.6	0.5	0.5	0.4	0.0	0.4
	25-44 years	0.6	1.1	0.5	0.9	1.3	1.8	1.2
	45-64 years	7.2	7.2	5.5	7.8	6.4	7.9	8.7
	65 years and over	58.6	50.9	58.0	45.8	50.8	63.3	42.6
Sex:	Male	89	232	77	62	182	54	79
	Female	101	176	67	44	173	42	60
Race:	White	189	396	144	106	354	96	138
	Black	-	-	-	-	-	-	-
	Indian	-	12	-	-	-	-	-
	Other & Unknown	1	-	-	-	1	-	1
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	-	8	3	2	1	1	-
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	34	98	31	20	60	18	36
150-159	Digestive	13	22	10	5	16	6	10
160-165	Respiratory	6	26	4	4	12	4	13
74-175	Breast	1	3	5	2	7	1	-
179-187	Genital	3	14	4	4	8	-	2
188-189	Urinary	2	6	1	-	3	1	2
204-208	Leukemia	1	2	2	2	2	1	3
250	Diabetes mellitus	2	3	4	1	4	1	2
390-448	Major cardiovascular	104	176	60	47	174	42	79
390-398	Rheumatic heart	-	1	-	-	3	1	-
402,404	Hypertensive heart	-	-	2	-	-	-	-
410-414	Ischemic heart	38	99	29	19	87	23	52
420-429	Other heart	25	22	8	11	40	10	16
400-401, & 403	Hypertension	2	-	1	1	1	-	-
430-438	Cerebrovascular	31	34	12	11	34	6	5
440	Arteriosclerosis	5	9	4	3	5	2	1
460-519	Respiratory	5	43	16	13	31	18	5
480-486	Pneumonia	2	22	9	3	20	11	2
487	Influenza	-	5	-	1	3	6	-
490-491	Bronchitis	1	-	-	-	2	-	-
492	Emphysema	1	-	-	-	-	-	-
493	Asthma	-	1	-	-	3	-	-
531-533	Ulcer of stomach and duodenum	1	4	-	1	-	-	-
550-553, & 560	Hernia & intestinal obstruction	-	-	1	1	1	-	-
571	Chronic liver disease and cirrhosis	-	2	2	1	4	-	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	1	1	1	3	3	-
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	3	2	2	2	-	1
760-779	Perinatal conditions	3	2	-	-	4	1	-
780-799	Ill-defined	8	8	8	2	14	1	1
Residual	Other diseases	18	37	14	8	36	3	7
E800-949	Unintentional Injury	10	16	2	2	16	7	3
E810-825	Motor vehicle	6	3	-	2	4	3	-
E880-888	Falls	3	5	-	-	5	-	-
E950-959	Suicide & self-inflicted injury	1	7	-	3	5	1	3
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	-	-	-
E980-999	Other violent deaths	-	-	-	2	-	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Lac Qui Parle	Lake	Lake of the Woods	LeSueur	Lincoln	Lyon	McLeod	Mahnomen	Marshall
DEATHS - Total		137	111	44	226	84	232	280	61	151
Rate:	Age & sex adjusted	9.0	8.3	8.1	7.5	6.9	8.0	8.0	8.2	8.9
Rate:	Sex adjusted-age specific									
	Under 5 years	6.0	2.5	0.0	1.4	3.8	0.8	1.4	0.0	1.9
	5-14 years	0.0	0.0	0.0	0.5	0.8	0.5	0.2	0.0	0.5
	15-24 years	0.6	1.5	0.0	1.7	0.9	0.4	0.4	0.0	0.0
	25-44 years	0.9	0.0	2.0	0.6	1.9	1.2	1.2	1.6	1.6
	45-64 years	5.7	5.5	5.1	4.7	1.9	9.9	6.0	4.9	6.1
	65 years and over	58.1	55.3	54.0	48.9	43.9	46.6	51.4	55.7	58.2
Sex:	Male	79	56	23	124	41	114	150	36	89
	Female	58	55	21	102	43	118	130	25	62
Race:	White	137	110	44	226	84	232	280	51	150
	Black	-	-	-	-	-	-	-	-	-
	Indian	-	-	-	-	-	-	-	10	-
	Other & Unknown	-	-	-	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH									
001-139	Infective-parasitic	1	2	1	2	2	-	1	-	2
010-018	Tuberculosis	-	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	27	21	12	41	16	54	41	6	26
150-159	Digestive	10	6	3	11	5	15	13	3	5
160-165	Respiratory	5	6	1	9	2	13	8	1	4
174-175	Breast	1	1	-	5	1	8	7	1	1
179-187	Genital	5	-	3	8	5	9	6	-	5
188-189	Urinary	-	1	-	4	-	-	3	1	4
204-208	Leukemia	1	2	1	1	-	5	-	-	1
250	Diabetes mellitus	2	1	-	6	3	2	5	1	1
390-448	Major cardiovascular	62	47	15	129	39	118	166	38	84
390-398	Rheumatic heart	1	-	-	1	-	-	-	-	-
402,404	Hypertensive heart	-	-	-	2	-	1	1	-	1
410-414	Ischemic heart	36	23	7	76	22	72	89	24	36
420-429	Other heart	10	6	3	24	8	21	27	7	29
400-401, & 403	Hypertension	-	-	1	2	-	1	1	1	-
430-438	Cerebrovascular	12	14	4	18	9	19	35	2	14
440	Arteriosclerosis	2	2	-	3	-	1	7	1	2
460-519	Respiratory	17	12	7	14	7	15	22	3	13
480-486	Pneumonia	9	8	3	4	3	7	12	1	5
487	Influenza	5	-	-	2	1	1	-	-	1
490-491	Bronchitis	-	-	-	-	-	-	-	-	1
492	Emphysema	-	1	-	1	-	-	-	-	1
493	Asthma	2	-	1	-	-	-	2	-	1
531-533	Ulcer of stomach and duodenum	-	2	-	1	1	-	1	-	-
550-553, & 560	Hernia & intestinal obstruction	-	-	-	-	1	1	1	-	-
571	Chronic liver disease and cirrhosis	1	3	1	1	1	5	-	2	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	2	4	-	3	-	1	6
590	Kidney infection	-	-	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	-	-	1	1	1	1	-	-
760-779	Perinatal conditions	1	1	-	1	-	-	1	-	-
780-799	Ill-defined	4	2	-	5	-	3	4	4	1
Residual	Other diseases	6	13	4	12	7	17	22	4	7
E800-949	Unintentional Injury	8	6	1	7	6	13	13	2	7
E810-825	Motor vehicle	2	3	1	3	1	5	9	-	-
E880-888	Falls	2	2	-	-	-	2	2	-	4
E950-959	Suicide & self-inflicted injury	2	-	1	2	-	-	1	-	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	-	-	1	-	-
E980-999	Other violent deaths	-	1	-	-	-	-	-	-	-

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Martin	Meeker	Mille Lacs	Morrison	Mower	Murray	Nicollet
DEATHS - Total		271	210	196	258	417	119	220
Rate:	Age & sex adjusted	8.3	8.1	7.8	7.3	7.5	8.1	9.2
Rate:	Sex adjusted-age specific							
	Under 5 years	0.0	1.0	3.1	2.1	1.0	2.3	1.3
	5-14 years	0.0	0.0	0.0	0.4	0.2	0.6	0.7
	15-24 years	0.6	1.2	2.0	2.0	1.2	0.6	0.2
	25-44 years	1.9	0.8	0.9	0.8	1.1	1.9	2.0
	45-64 years	6.9	6.7	8.0	6.3	6.7	5.3	7.2
	65 years and over	51.9	51.9	44.5	43.8	46.4	50.5	58.0
Sex:	Male	119	98	110	129	214	67	117
	Female	152	112	86	129	203	52	103
Race:	White	270	210	192	257	417	119	218
	Black	-	-	-	-	-	-	1
	Indian	-	-	4	1	-	-	-
	Other & Unknown	1	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	1	5	1	2	1	-	4
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	57	39	47	43	105	21	55
150-159	Digestive	18	13	13	13	32	7	17
160-165	Respiratory	14	4	16	5	31	4	6
174-175	Breast	6	4	1	1	6	3	11
179-187	Genital	6	7	2	6	11	1	9
188-189	Urinary	3	3	2	3	1	1	-
204-208	Leukemia	2	1	3	3	6	2	4
250	Diabetes mellitus	11	7	-	4	6	1	2
390-448	Major cardiovascular	135	117	90	138	173	77	99
390-398	Rheumatic heart	-	1	1	1	2	-	1
402,404	Hypertensive heart	3	-	1	1	1	4	1
410-414	Ischemic heart	74	55	60	61	101	38	51
420-429	Other heart	19	20	9	33	36	14	18
400-401, & 403	Hypertension	2	3	1	1	-	-	-
430-438	Cerebrovascular	23	25	17	33	28	18	21
440 .	Arteriosclerosis	5	5	-	-	3	1	2
460-519	Respiratory	28	9	19	13	34	6	16
480-486	Pneumonia	13	4	11	8	15	6	7
487	Influenza	1	1	1	-	-	-	2
490-491	Bronchitis	-	-	1	-	2	-	-
492	Emphysema	1	-	-	1	1	-	-
493	Asthma	-	1	-	-	5	-	2
531-533	Ulcer of stomach and duodenum	-	1	1	-	2	1	-
550-553, & 560	Hernia & intestinal obstruction	2	-	-	1	2	2	1
571	Chronic liver disease and cirrhosis	4	2	2	5	4	-	1
580-589	Nephritis, nephrotic syndrome & nephrosis	2	1	2	3	2	-	1
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	2	-	1	2	1	-
760-779	Perinatal conditions	-	1	3	2	1	-	-
780-799	Ill-defined	-	2	1	1	31	-	4
Residual	Other diseases	18	11	18	20	32	3	20
E800-949	Unintentional Injury	9	9	10	21	9	7	11
E810-825	Motor vehicle	5	3	8	11	6	5	5
E880-888	Falls	1	1	1	3	1	-	3
E950-959	Suicide & self-inflicted injury	2	4	2	4	9	-	4
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	3	-	-
E980-999	Other violent deaths	-	-	-	-	1	-	2

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Nobles	Norman	Olmsted	Otter Tail	Penn-ington	Pine	Pipe-stone	Polk
DEATHS - Total		204	130	580	639	172	224	137	390
Rate:	Age & sex adjusted	7.1	9.7	7.2	8.6	10.0	8.6	8.2	8.9
Rate:	Sex adjusted-age specific								
	Under 5 years	1.2	2.7	1.6	1.6	0.9	2.4	1.2	3.2
	5-14 years	0.3	0.0	0.3	0.2	1.0	0.3	0.0	0.2
	15-24 years	0.9	0.0	0.3	1.0	0.8	0.6	1.8	1.4
	25-44 years	1.2	2.5	0.9	1.2	2.7	1.2	0.4	1.3
	45-64 years	3.2	8.5	5.0	6.0	6.7	9.1	6.7	8.0
	65 years and over	47.4	58.6	47.7	55.7	61.7	51.2	52.9	53.2
Sex:	Male	118	71	279	373	96	128	76	230
	Female	86	59	301	266	76	96	61	160
Race:	White	202	130	567	638	171	221	137	387
	Black	-	-	6	-	-	-	-	-
	Indian	-	-	-	1	-	3	-	1
	Other & Unknown	-	-	1	-	1	-	-	2
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	1	1	7	2	-	1	-	3
010-018	Tuberculosis	-	-	-	-	-	-	-	1
140-208	Neoplasms-malignant	34	22	135	134	28	46	28	91
150-159	Digestive	8	7	32	33	7	15	3	18
160-165	Respiratory	5	3	30	22	6	9	6	20
174-175	Breast	3	2	15	13	2	5	2	7
179-187	Genital	2	2	21	21	1	5	5	17
188-189	Urinary	4	1	7	7	-	2	2	7
204-208	Leukemia	2	5	9	6	2	2	2	5
250	Diabetes mellitus	3	4	17	8	5	5	3	4
390-448	Major cardiovascular	104	76	255	342	95	112	71	198
390-398	Rheumatic heart	1	-	4	1	-	-	-	-
402,404	Hypertensive heart	-	-	4	3	-	1	-	1
410-414	Ischemic heart	61	41	155	183	49	53	33	109
420-429	Other heart	10	11	26	74	12	35	11	35
400-401, & 403	Hypertension	-	1	2	5	1	1	-	2
430-438	Cerebrovascular	25	19	44	50	27	20	17	29
440	Arteriosclerosis	2	3	5	13	2	-	6	9
460-519	Respiratory	26	6	43	64	12	17	16	32
480-486	Pneumonia	9	2	16	32	3	2	10	10
487	Influenza	-	2	1	2	-	2	-	2
490-491	Bronchitis	-	-	1	-	1	1	-	-
492	Emphysema	2	-	3	2	1	1	-	2
493	Asthma	2	1	2	2	1	-	-	1
531-533	Ulcer of stomach and duodenum	1	-	3	-	1	-	1	1
550-553, & 560	Hernia & intestinal obstruction	-	-	3	1	1	2	1	3
571	Chronic liver disease and cirrhosis	2	1	6	1	1	-	1	2
580-589	Nephritis, nephrotic syndrome & nephrosis	-	3	4	6	-	3	-	5
590	Kidney infection	1	-	1	1	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	-	5	1	-	1	-	1
760-779	Perinatal conditions	-	1	5	2	-	1	-	1
780-799	Ill-defined	5	-	5	8	6	8	8	4
Residual	Other diseases	15	11	50	39	14	13	3	31
E800-949	Unintentional Injury	8	2	32	27	8	11	4	11
E810-825	Motor vehicle	5	1	12	13	4	4	3	4
E880-888	Falls	1	-	8	3	-	2	1	-
E950-959	Suicide & self-inflicted injury	3	3	7	2	-	1	1	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	1	1	1	-	-	2
E980-999	Other violent deaths	-	-	1	-	-	2	-	-

Table 44
SELECTED MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

*		Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville	Rice	Rock
DEATHS - Total		157	3,977	2,732	74	227	209	371	93
Rate:	Age & sex adjusted	6.8	8.5	8.6	11.0	8.4	7.6	8.2	6.8
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	2.8	3.3	2.6	2.8	1.3	1.1	0.0
	5-14 years	0.0	0.2	0.2	1.1	0.0	0.3	0.5	0.0
	15-24 years	0.0	0.8	0.8	3.8	0.7	0.4	0.9	0.0
	25-44 years	0.7	1.3	1.4	0.0	0.7	1.1	0.6	1.6
	45-64 years	5.5	7.8	9.3	14.5	5.4	5.8	6.7	7.3
	65 years and over	62.2	51.4	49.5	59.8	56.0	49.0	52.8	41.1
Sex:	Male	82	1,923	1,310	45	111	124	174	50
	Female	75	2,054	1,422	29	116	85	197	43
Race:	White	157	3,822	2,597	73	226	208	370	93
	Black	-	113	103	-	-	-	-	-
	Indian	-	12	8	-	-	-	-	-
	Other & Unknown	-	6	24	-	-	1	-	-
ICDA***	CAUSE OF DEATH								
001-139	Infective-parasitic	1	41	29	-	-	3	6	1
010-018	Tuberculosis	-	2	2	-	-	-	-	-
140-208	Neoplasms-malignant	34	900	588	11	39	41	79	20
150-159	Digestive	4	232	145	5	11	14	21	4
160-165	Respiratory	13	219	149	3	6	5	20	3
174-175	Breast	2	83	52	-	1	1	10	3
179-187	Genital	6	109	81	1	6	9	13	3
188-189	Urinary	3	41	23	2	2	3	4	2
204-208	Leukemia	-	34	21	-	1	2	-	-
250	Diabetes mellitus	2	71	55	1	2	3	8	1
390-448	Major cardiovascular	76	1,774	1,228	34	138	106	198	56
390-398	Rheumatic heart	-	11	9	-	-	1	-	-
402,404	Hypertensive heart	-	26	18	2	-	-	-	-
410-414	Ischemic heart	47	944	651	20	59	60	95	34
420-429	Other heart	14	297	199	8	27	18	51	3
400-401, & 403	Hypertension	1	16	13	1	2	-	5	1
430-438	Cerebrovascular	12	331	233	1	36	25	33	12
440	Arteriosclerosis	-	51	25	1	8	1	6	2
460-519	Respiratory	21	331	248	8	19	23	28	3
480-486	Pneumonia	13	154	111	2	8	9	10	1
487	Influenza	2	6	6	1	-	1	-	-
490-491	Bronchitis	-	2	2	1	-	-	4	-
492	Emphysema	-	18	16	1	3	-	3	-
493	Asthma	1	7	6	-	-	1	-	1
531-533	Ulcer of stomach and duodenum	-	12	8	1	2	-	-	1
550-553, & 560	Hernia & intestinal obstruction	1	15	10	-	1	-	-	-
571	Chronic liver disease and cirrhosis	-	34	27	1	-	2	2	-
580-589	Nephritis, nephrotic syndrome & nephrosis	3	26	20	2	-	1	3	1
590	Kidney infection	1	2	1	1	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	35	20	1	-	-	3	-
760-779	Perinatal conditions	-	37	25	-	2	-	1	-
780-799	Ill-defined	8	128	88	1	3	1	3	-
Residual	Other diseases	6	339	231	8	10	14	18	7
E800-949	Unintentional Injury	4	136	86	5	11	11	15	2
E810-825	Motor vehicle	-	56	33	4	5	5	8	1
E880-888	Falls	1	25	18	-	2	1	7	-
E950-959	Suicide & self-inflicted injury	-	74	51	-	-	3	7	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	16	12	-	-	1	-	-
E980-999	Other violent deaths	-	6	5	-	-	-	-	-

Table 44

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Roseau	St. Louis	Duluth	Scott	Sherburne	Sibley	Stearns
DEATHS - Total		133	2,245	1,147	257	255	162	636
Rate:	Age & sex adjusted	8.2	9.0	10.3	8.7	10.6	8.2	6.2
Rate:	Sex adjusted-age specific							
	Under 5 years	3.3	1.5	2.4	1.6	3.4	1.5	1.7
	5-14 years	0.8	0.3	0.4	0.0	0.0	0.4	0.1
	15-24 years	1.9	0.8	0.9	1.0	1.0	3.9	0.7
	25-44 years	1.3	1.4	1.9	0.6	1.6	0.5	0.8
	45-64 years	8.0	8.5	9.8	5.1	8.0	5.0	6.0
	65 years and over	46.2	55.0	61.3	59.1	67.5	51.2	37.6
Sex:	Male	78	1,186	565	139	142	91	378
	Female	55	1,059	582	118	113	71	258
Race:	White	133	2,234	1,143	256	254	162	634
	Black	-	2	2	-	-	-	1
	Indian	-	8	1	-	-	-	-
	Other & Unknown	-	-	1	-	-	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	-	21	12	1	3	1	9
010-018	Tuberculosis	-	1	1	-	-	-	1
140-208	Neoplasms-malignant	26	492	242	57	43	34	147
150-159	Digestive	6	154	74	13	11	8	38
160-165	Respiratory	7	112	58	13	6	6	30
174-175	Breast	1	34	16	4	3	5	17
179-187	Genital	1	54	30	5	6	3	23
188-189	Urinary	2	19	8	5	2	2	4
204-208	Leukemia	3	24	10	4	1	1	5
250	Diabetes mellitus	1	41	20	5	5	2	11
390-448	Major cardiovascular	59	1,062	534	113	119	71	284
390-398	Rheumatic heart	-	7	5	-	1	-	1
402,404	Hypertensive heart	-	27	13	-	1	-	5
410-414	Ischemic heart	25	468	227	71	47	34	157
420-429	Other heart	23	282	140	15	31	22	47
400-401, & 403	Hypertension	-	13	6	3	1	-	2
430-438	Cerebrovascular	8	197	105	21	26	10	47
440	Arteriosclerosis	-	23	13	1	5	2	14
460-519	Respiratory	16	192	103	19	19	15	46
480-486	Pneumonia	6	83	52	10	6	12	18
487	Influenza	2	8	1	-	-	-	2
490-491	Bronchitis	-	6	3	-	-	-	1
492	Emphysema	1	16	7	-	2	-	1
493	Asthma	1	2	1	1	1	-	1
531-533	Ulcer of stomach and duodenum	2	6	3	-	1	-	-
550-553, & 560	Hernia & intestinal obstruction	1	8	4	1	2	-	3
571	Chronic liver disease and cirrhosis	1	24	7	4	5	-	8
580-589	Nephritis, nephrotic syndrome & nephrosis	3	21	8	2	2	-	11
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	11	8	2	4	3	9
760-779	Perinatal conditions	-	7	4	2	1	-	6
780-799	Ill-defined	2	80	55	6	6	17	7
Residual	Other diseases	10	170	90	22	22	5	47
E800-949	Unintentional Injury	9	65	31	19	19	11	31
E810-825	Motor vehicle	5	27	8	9	15	5	7
E880-888	Falls	-	11	5	5	2	3	3
E950-959	Suicide & self-inflicted injury	1	34	20	4	4	1	12
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	5	2	-	-	-	3
E980-999	Other violent deaths	-	6	4	-	-	2	2

Table 44

SELECTED MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

		Steele	Stevens	Swift	Todd	Traverse	Wabasha	Wadena
DEATHS - Total		252	109	156	218	70	192	192
Rate:	Age & sex adjusted	7.5	7.9	8.4	7.0	8.2	7.2	10.3
Rate:	Sex adjusted-age specific							
	Under 5 years	0.7	3.4	0.0	1.6	2.8	1.2	2.7
	5-14 years	0.0	0.0	0.0	0.5	0.0	0.7	0.4
	15-24 years	1.0	0.0	0.0	0.7	0.0	2.6	2.6
	25-44 years	0.8	0.0	1.8	0.7	0.0	1.0	0.9
	45-64 years	5.5	5.2	7.2	6.5	4.4	3.3	10.2
	65 years and over	49.5	54.6	53.4	43.7	58.5	45.6	60.7
Sex:	Male	148	51	82	131	32	118	89
	Female	104	58	74	87	38	74	103
Race:	White	251	109	156	218	69	191	190
	Black	-	-	-	-	-	1	-
	Indian	-	-	-	-	1	-	-
	Other & Unknown	1	-	-	-	-	-	2
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	6	1	2	2	-	1	2
010-018	Tuberculosis	1	-	-	-	-	-	-
140-208	Neoplasms-malignant	43	13	26	54	18	32	38
150-159	Digestive	8	4	4	13	5	10	11
160-165	Respiratory	7	5	9	12	1	4	10
174-175	Breast	6	1	3	3	2	3	4
179-187	Genital	5	-	1	7	3	7	2
188-189	Urinary	-	2	-	4	1	2	3
204-208	Leukemia	-	1	2	3	2	-	1
250	Diabetes mellitus	3	4	1	4	1	1	3
390-448	Major cardiovascular	132	61	86	93	38	93	96
390-398	Rheumatic heart	3	-	1	1	-	1	1
402,404	Hypertensive heart	-	-	-	-	-	-	-
410-414	Ischemic heart	69	32	38	50	24	44	55
420-429	Other heart	21	14	31	18	6	21	18
400-401, & 403	Hypertension	-	1	1	2	-	-	-
430-438	Cerebrovascular	25	13	11	18	6	21	16
440	Arteriosclerosis	5	-	2	2	-	-	4
460-519	Respiratory	19	14	11	16	4	22	24
480-486	Pneumonia	9	7	3	3	1	10	15
487	Influenza	-	1	-	2	-	5	-
490-491	Bronchitis	-	-	-	-	-	-	-
492	Emphysema	2	-	-	3	-	1	-
493	Asthma	-	-	1	-	-	2	1
531-533	Ulcer of stomach and duodenum	1	-	-	-	-	1	-
550-553, & 560	Hernia & intestinal obstruction	-	-	1	-	-	-	-
571	Chronic liver disease and cirrhosis	1	1	-	1	-	-	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	2	3	-	1	1
590	Kidney infection	-	-	-	1	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	1	-	-
740-759	Congenital anomalies	1	-	-	-	-	1	2
760-779	Perinatal conditions	-	-	-	-	-	1	2
780-799	Ill-defined	2	2	-	1	-	1	2
Residual	Other diseases	20	6	6	16	2	21	11
E800-949	Unintentional Injury	15	6	15	15	4	15	8
E810-825	Motor vehicle	5	-	5	9	1	10	3
E880-888	Falls	3	-	3	4	-	2	2
E950-959	Suicide & self-inflicted injury	7	1	-	1	1	1	-
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	1	3	-	-	1
E980-999	Other violent deaths	-	-	-	-	-	1	-

Table 44
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1986 (CONT.)

ICDA**		Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine	Unknown
	DEATHS - Total	193	621	142	67	392	464	172	5
	Rate: Age & sex adjusted	9.0	9.1	8.4	6.5	7.9	8.6	8.4	0.0
	Rate: Sex adjusted-age specific								
	Under 5 years	1.1	1.9	2.1	1.5	3.1	1.0	0.0	0.0
	5-14 years	0.0	0.1	0.6	0.0	0.0	0.4	0.0	0.0
	15-24 years	1.0	0.4	0.6	0.0	0.8	1.1	1.0	0.0
	25-44 years	1.5	1.0	1.0	0.5	0.6	1.0	0.7	0.0
	45-64 years	5.1	6.1	8.2	6.2	6.4	6.8	6.5	0.0
	65 years and over	59.8	60.6	50.8	41.7	50.1	55.1	56.1	0.0
	Sex: Male	105	312	84	36	205	250	91	4
	Female	88	309	58	31	187	214	81	-
	Race: White	193	618	141	67	391	462	169	3
	Black	-	-	-	-	-	-	1	-
	Indian	-	-	-	-	-	-	2	-
	Other & Unknown	-	1	-	-	-	2	-	2
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	1	11	2	-	3	4	-	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	58	164	30	15	81	88	37	-
150-159	Digestive	19	38	5	1	32	30	12	-
160-165	Respiratory	12	37	9	1	9	16	9	-
174-175	Breast	3	10	1	3	8	7	7	-
179-187	Genital	5	18	7	3	9	9	5	-
188-189	Urinary	2	8	-	1	1	5	1	-
204-208	Leukemia	4	6	3	-	4	3	1	-
250	Diabetes mellitus	4	10	4	-	3	3	4	-
390-448	Major cardiovascular	87	270	72	39	192	205	94	-
390-398	Rheumatic heart	1	3	1	-	1	-	-	-
402,404	Hypertensive heart	-	2	1	-	3	2	1	-
410-414	Ischemic heart	44	137	43	20	91	98	53	-
420-429	Other heart	17	57	10	8	53	59	19	-
400-401, & 403	Hypertension	2	4	-	-	1	1	-	-
430-438	Cerebrovascular	17	45	11	8	30	31	14	-
440	Arteriosclerosis	1	9	2	2	4	3	3	-
460-519	Respiratory	10	40	16	5	35	41	13	1
480-486	Pneumonia	3	13	8	3	13	19	8	1
487	Influenza	-	2	-	-	1	2	3	-
490-491	Bronchitis	-	1	-	-	1	1	-	-
492	Emphysema	-	2	-	-	-	-	-	-
493	Asthma	-	3	-	-	2	1	-	-
531-533	Ulcer of stomach and duodenum	1	1	-	1	1	2	-	-
550-553, & 560	Hernia & intestinal obstruction	1	2	1	1	2	2	2	-
571	Chronic liver disease and cirrhosis	1	3	-	-	2	1	2	-
580-589	Nephritis, nephrotic syndrome & nephrosis	2	5	-	1	4	7	3	-
590	Kidney infection	-	1	-	-	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	7	-	-	2	1	-	-
760-779	Perinatal conditions	1	9	1	-	6	3	-	-
780-799	Ill-defined	1	19	-	-	3	25	1	-
Residual	Other diseases	13	47	10	2	40	37	11	-
E800-949	Unintentional Injury	7	23	3	2	14	34	4	2
E810-825	Motor vehicle	6	8	1	1	4	20	1	1
E880-888	Falls	1	4	-	-	2	5	1	-
E950-959	Suicide & self-inflicted injury	4	8	3	1	4	8	1	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	2	1	-	-	-	1	-	-
E980-999	Other violent deaths	-	-	-	-	-	1	-	1

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* As of the 1980 Census

+ Includes unknown sex

** For detailed causes see Table 40

Marriage

Table 45
MARRIAGES REPORTED IN MINNESOTA BY STATE OF RESIDENCE
1986

State of Residence	Marriages Reported		Percent of Marriages Reported	
	Residence of Bride	Residence of Groom	Residence of Bride	Residence of Groom
Total	34,199	34,199	100.0	100.0
Minnesota*	31,926	30,709	93.4	89.8
Other Areas and Unknown	2,273	3,490	6.6	10.2
Iowa	142	226	0.4	0.7
North Dakota	318	423	0.9	1.2
South Dakota	95	151	0.3	0.4
Wisconsin	362	486	1.1	1.4
Other States	1,285	2,092	3.8	6.1
U.S. Territories	-	2	-	0.0
Other Nations	71	110	0.2	0.3
Unknown	-	-	-	-

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* The resident totals are not true resident totals for Minnesota. Information is not available at the present time on the number of Minnesotans who marry in other States.

Table 46
MARRIAGES, DIVORCES, AND ANNULMENTS BY COUNTY OF OCCURRENCE
MINNESOTA, 1986

County	Marriages	Divorces	Annulments
State Total	34,199	14,407	19
Aitkin	73	36	-
Anoka	1,489	942	-
Becker	230	91	-
Beltrami	316	144	-
Benton	60	58	-
Big Stone	43	9	-
Blue Earth	501	157	-
Brown	216	50	-
Carlton	219	116	-
Carver	292	145	-
Cass	92	69	-
Chippewa	88	37	-
Chisago	193	69	-
Clay	478	156	-
Clearwater	55	27	-
Cook	28	13	-
Cottonwood	96	40	-
Crow Wing	355	185	-
Dakota	932	782	2
Dodge	79	46	-
Douglas	203	91	-
Faribault	74	39	-
Fillmore	93	50	-
Freeborn	273	123	1
Goodhue	280	119	-
Grant	39	12	-
Hennepin	11,093	3,995	6
Houston	143	53	-
Hubbard	100	39	-
Isanti	182	55	-
Itasca	285	172	1
Jackson	61	36	-
Kanabec	83	37	-
Kandiyohi	330	104	-
Kittson	29	15	-
Koochiching	106	42	-
Lac Qui Parle	55	26	-
Lake	74	44	-
Lake of the Woods	33	13	-
Le Sueur	90	61	1
Lincoln	48	14	-
Lyon	224	67	-
McLeod	243	103	-
Mahnomen	38	9	-
Marshall	51	17	-

Table 46
MARRIAGES, DIVORCES, AND ANNULMENTS BY COUNTY OF OCCURRENCE
MINNESOTA, 1986 (CONT.)

County	Marriages	Divorces	Annulments
Martin	163	78	-
Meeker	126	27	-
Mille Lacs	142	51	-
Morrison	227	87	1
Mower	261	112	-
Murray	45	11	-
Nicollet	127	23	-
Nobles	147	54	-
Norman	51	19	-
Olmsted	987	336	-
Otter Tail	263	131	-
Pennington	112	53	-
Pine	142	51	-
Pipestone	83	21	-
Polk	264	37	-
Pope	53	18	-
Ramsey	4,361	1,917	5
Red Lake	28	6	-
Redwood	102	35	-
Renville	80	24	-
Rice	318	149	1
Rock	79	17	-
Roseau	127	35	-
St. Louis	1,414	833	-
Scott	527	209	-
Sherburne	178	104	-
Sibley	74	32	-
Stearns	1,090	243	-
Steele	221	91	-
Stevens	65	25	-
Swift	50	20	-
Todd	123	65	-
Traverse	27	1	-
Wabasha	84	32	-
Wadena	170	31	-
Waseca	124	60	-
Washington	771	495	1
Watonwan	68	39	-
Wilkin	51	15	-
Winona	352	118	-
Wright	405	169	-
Yellow Medicine	52	25	-
Unknown	-	-	-

Table 47
MARRIAGES OCCURRING IN MINNESOTA BY RACE OF BRIDE AND GROOM, 1986

	GROOM								
BRIDE	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	OTHER* ASIAN	OTHER	UNKNOWN
TOTAL	34,199	29,537	740	220	33	14	190	20	3,445
WHITE	29,475	28,815	246	112	14	11	67	14	196
BLACK	525	48	461	2	-	-	-	-	14
INDIAN	209	102	3	101	-	-	-	-	3
CHINESE	34	15	-	-	16	-	-	-	3
JAPANESE	21	17	1	-	1	2	-	-	-
OTHER ASIAN*	195	70	3	1	1	-	114	-	6
OTHER	40	30	1	-	-	-	2	6	1
UNKNOWN	3,700	440	25	4	1	1	7	-	3,222

* Includes Pacific Islanders

Table 48
MARRIAGES OCCURRING IN MINNESOTA
BY AGE OF BRIDE AND GROOM, 1986

		Groom's Age												
Bride's Age	Total	Under 18	18-19	20	21-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Un-known*
Total	34,199	26	1,003	1,374	9,930	10,155	4,979	2,790	1,434	817	513	372	278	517	11
Under 18	294	12	120	47	87	21	4	3	-	-	-	-	-	-	-
18-19	2,896	8	589	550	1,321	352	59	9	2	4	1	-	-	1	-
20	2,408	2	161	368	1,373	424	66	11	2	1	-	-	-	-	-
21-24	11,365	2	97	346	5,813	3,994	839	195	52	13	6	6	1	-	1
25-29	8,536	1	24	49	1,109	4,258	2,053	745	210	64	11	7	1	2	2
30-34	3,951	-	6	5	174	885	1,384	946	351	123	56	14	6	1	-
35-39	2,098	-	1	3	30	182	459	661	430	203	82	32	10	4	1
40-44	989	-	2	3	10	25	84	162	287	215	121	43	28	9	-
45-49	598	-	-	1	3	7	23	45	86	142	138	94	37	22	-
50-54	313	-	1	-	3	1	6	7	12	39	70	83	61	30	-
55-59	201	-	-	-	1	1	1	2	1	5	18	63	53	56	-
60-64	199	-	-	-	-	-	1	2	-	4	7	20	61	104	-
65+	329	1	2	2	-	1	-	-	-	3	2	10	20	287	1
Unknown*	22	-	-	-	6	4	-	2	1	1	1	-	-	1	6

* Includes age specified as legal

Divorce

DISSOLUTIONS AND ANNULMENTS IN MINNESOTA

The seven tables which follow depict selected characteristics of Minnesota's population which experienced divorce in 1986. Interpretation of these data should be carefully executed due to the large amount of missing data in some tables. These data are missing due to the recent changes and full implementation (1985) of marriage dissolution reporting in Minnesota.

Table 49 shows age of wife versus age of husband for dissolutions and annulments occurring in 1986. Twenty-three percent of all divorces occurred to women aged 25-29. Twenty percent of all divorces also occurred to men aged 25-29. The 30-34 age group of husbands accounted for the greatest percentage of total divorces (21.2%).

Table 51 indicates educational attainment levels of divorce subjects. The husbands' highest level of education was high school in 21 percent, whereas 28 percent of all wives involved in divorce completed high school. Some post high school education was evident in approximately 21 percent of all divorces for both men and women. Graduate level education was more prevalent for husbands.

Tables 52 and 53 indicate custody arrangement for children of couples who divorced in 1986. These tables should be used cautiously since numerous records were omitted from the custody arrangement analyses due to inconsistencies within records or missing data elements. The following criteria were used to omit records:

1. Of the 14,426 divorce records, 3,734 records contain only indexing information. These were rejected since all other data elements were blank.

2. Four thousand four hundred fifty-five records of the remaining 10,692 were rejected because there was no mention of children residing in the household.

3. Of the 6,237 cases for which children were indicated, only 4,865 contained custody information.

4. Ten of those 4,865 cases were omitted because the number of children at time of separation was unknown.

Judicial decision about placement of children by family size is depicted in Table 52. All children were awarded to the wife in 77 percent of all divorce cases for which custody was known, while husbands were awarded custody of all children in nine percent of all cases.

The total number of children affected by divorce in Minnesota—after omitting records by the previously described methods—was 8,640. Custody arrangements for those children are indicated in Table 53.

Please note that differentiation must be made between Table 52 and Table 53 in that Table 52 pertains to cases with children and Table 53 depicts total number of children affected.

Table 54 indicates average monthly amounts of child support awarded by family size. On a per child basis, support awards decreased as family size increased with the exception of those cases in which seven children were involved. Because of the small numbers of cases with five or more children, caution is advised in interpreting the data.

Approximately 46 percent of all divorces in 1986 occurred for marriages in which both partners had not been previously married. Table 55 indicates number of prior marriages for husbands and wives. Nearly half of all divorces in 1986 occurred for marriages of less than ten years duration as indicated in Table 56.

Table 49
DISSOLUTIONS AND ANNULMENTS BY AGE OF WIFE VERSUS AGE OF HUSBAND
MINNESOTA OCCURRENCE, 1986

	Husband's Age											
Wife's Age	Total	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Unknown
Total	14,426	27	1,144	2,909	3,065	2,428	1,773	1,120	618	392	230	207	513
15-19	155	13	105	27	5	1	2	-	-	-	1	-	1
20-24	2,072	10	836	943	224	38	11	3	3	-	-	1	3
25-29	3,250	2	168	1,605	1,091	263	84	23	4	-	-	-	10
30-34	2,868	1	23	260	1,401	876	188	67	26	14	1	1	10
35-39	2,248	-	5	52	277	1,041	628	146	58	22	11	3	5
40-44	1,578	-	-	7	44	156	736	456	112	42	18	5	2
45-49	783	1	-	5	6	32	99	357	187	64	23	5	4
50-54	402	-	-	-	4	4	15	49	176	116	24	11	3
55-59	240	-	1	-	-	3	2	8	38	102	64	22	-
60-64	139	-	-	-	-	1	1	2	5	23	64	43	-
65 & Over	152	-	-	-	1	-	-	2	5	8	22	112	2
Unknown	539	-	6	10	12	13	7	7	4	1	2	4	473

Table 50
DISSOLUTIONS AND ANNULMENTS BY RACE OF WIFE VERSUS RACE OF HUSBAND
MINNESOTA OCCURRENCE, 1986

	Husband's Race									
Wife's Race	Total	White	Black	Indian	Chinese	Japanese	Filipino	Other Asian*	Non-White	Unknown
Total	14,426	7,622	292	71	4	1	12	50	3	6,371
White	7,674	7,479	79	28	-	-	2	16	2	68
Black	219	9	203	-	-	-	1	1	1	4
Indian	90	40	2	41	-	-	-	-	-	7
Chinese	6	1	-	-	4	-	-	1	-	-
Japanese	3	3	-	-	-	-	-	-	-	-
Filipino	19	8	-	-	-	1	8	1	-	1
Other Asian*	51	18	-	-	-	-	-	31	-	2
Other Non-White	1	1	-	-	-	-	-	-	-	-
Unknown	6,363	63	8	2	-	-	1	-	-	6,289

* Includes Pacific Islanders

Table 51
DISSOLUTIONS AND ANNULMENTS BY EDUCATIONAL ATTAINMENT OF WIFE VERSUS EDUCATIONAL ATTAINMENT OF HUSBAND
MINNESOTA OCCURRENCE, 1986

Wife's Educational Attainment	Husband's Educational Attainment					
	Total	Less Than 12 Years	High School Graduate	1-4 Years of College	5+ Years of College	Unknown
Total	14,426	940	3,653	2,475	586	6,772
Less Than 12 Years	713	236	361	55	1	60
High School Graduate	4,022	534	2,498	751	74	165
1-4 Years College	2,685	114	665	1,391	321	194
5+ Years College	363	4	38	137	168	16
Unknown	6,643	52	91	141	22	6,337

Table 52
NUMBER OF CHILDREN IN FAMILY BY CUSTODY AWARD MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1986

	Number of Dissolution Cases					
Number of Children in Family	All Children Awarded to Wife	All Children Awarded to Husband	Children's Custody Shared	All Children Awarded to Non-Parental Party	Custody of Children Split*	Total Cases
1	1,623	194	239	6	-	2,062
2	1,562	180	199	3	85	2,029
3	443	45	54	2	52	596
4	85	11	8	2	16	122
5	22	3	4	1	5	35
6	5	1	1	-	1	8
7	3	-	-	-	-	3
Total	3,743	434	505	14	159	4,855
Percent of Total	77.1%	8.9%	10.4%	0.3%	3.3%	100.0%

* More than one party is awarded custody of one or more children in a multiple child family.

Table 53
NUMBER OF CHILDREN IN FAMILY VERSUS TOTAL NUMBER OF CHILDREN WHOSE CUSTODY WAS AWARDED TO WIFE, HUSBAND, BOTH OR NON-PARENTAL PARTY
MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1986

	Number of Children Awarded				
Number of Children in Family	Number Awarded To Wife	Number Awarded To Husband	Number In Shared Custody	Number Awarded to Non-Parental Party	Total Number of Children
1	1,623	194	239	6	2,062
2	3,209	438	403	8	4,058
3	1,411	204	165	8	1,788
4	377	70	32	9	488
5	122	28	20	5	175
6	33	9	6	-	48
7	21	-	-	-	21
Total	6,796	943	865	36	8,640
Percent of Total	78.7%	10.9%	10.0%	0.4%	100.0%

Table 54
AVERAGE MONTHLY AMOUNT OF CHILD SUPPORT AWARDED* BY NUMBER OF CHILDREN, MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1986

Number of Children	Number of Cases	Average Total Support Awarded	Average Support Awarded Per Child
1	1,393	$282	$282
2	1,468	$374	$187
3	413	$435	$145
4	80	$524	$131
5	21	$657	$ 82
6	5	$449	$ 75
7	3	$875	$125

The average amount of monthly child support awarded per child (6044 total children) was $195.00.

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* Based on 3,383 cases in which the amount of child support is known.

Table 55
DISSOLUTIONS AND ANNULMENTS BY NUMBER OF THIS MARRIAGE FOR WIFE VERSUS NUMBER OF THIS MARRIAGE FOR HUSBAND MINNESOTA OCCURRENCE, 1986

Wife's Number This Marriage	Husband's Number This Marriage							
	Total	First	Second	Third	Fourth	Fifth	Sixth or Greater	Unknown
Total	14,426	7,430	1,808	317	55	14	7	4,795
First	7,563	6,640	742	94	16	3	2	66
Second	1,774	684	855	153	23	8	-	51
Third	297	67	150	56	8	2	5	9
Fourth	53	7	28	11	2	1	-	4
Fifth	16	4	8	1	3	-	-	-
Sixth or Greater	1	1	-	-	-	-	-	-
Unknown	4,722	27	25	2	3	-	-	4,665

Table 56
DISSOLUTIONS AND ANNULMENTS BY DURATION OF MARRIAGE
MINNESOTA OCCURRENCE, 1986

Years Married	Number of Dissolutions	Percent of Total
Less than 1	272	1.9
1-4	3,552	24.6
5-9	2,970	20.6
10-14	1,507	10.4
15-19	1,018	7.1
20-24	652	4.5
25-29	357	2.5
30-34	161	1.1
35-39	82	0.6
40 or more	65	0.5
Unknown Duration	3,790	26.3
TOTAL	14,426	100.0

Occupational Illness and Injury

Table 57

NUMBER OF INJURIES AND ILLNESSES BY MAJOR INDUSTRIAL CATEGORY MINNESOTA, 1985 AND 1986

Industrial Category	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
Private Sector					
1. Agriculture, Forestry and Fisheries	830	1.7	746	1.6	-10.1
2. Mining	228	0.5	197	0.4	-13.6
3. Construction	4,577	9.5	5,174	11.1	+13.0
4. Manufacturing	14,919	31.1	13,864	29.7	- 7.1
5. Transportation and Public Utilities	3,781	7.9	3,440	7.4	- 9.0
6. Wholesale and Retail Trades	9,774	220.3	9,446	20.2	- 3.4
7. Finance, Insurance and Real Estate	723	1.5	833	1.8	+15.2
8. Services	8,375	17.4	8,513	18.2	+ 1.6
9. Public Sector*	4,822	10.0	4,490	9.6	- 6.9
Nonclassified Industries	8	0.0	13	0.0	0.0
Total	48,037	100.0	46,716	100.0	- 2.7

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* Industrial categories are not differentiated. Includes all government and public adminstration data; regardless of industrial category.

Table 58

ANNUAL AVERAGE EMPLOYMENT, PERCENT OF TOTAL EMPLOYMENT AND RATE OF OCCUPATIONAL INJURIES AND ILLNESSES PER 1,000 WORKERS BY INDUSTRIAL CATEGORY*, MINNESOTA 1985 AND 1986

Industrial Category	1985	1986
Mining		
Annual Average Employment	8,336	6,541
Percent	0.4	0.3
Rate of Injuries Per 1,000 Workers	27.4	30.1
Construction		
Annual Average Employment	71,310	74,560
Percent	3.8	3.9
Rate of Injuries Per 1,000 Workers	64.2	69.4
Manufacturing		
Annual Average Employment	375,279	369,022
Percent	20.1	19.5
Rate of Injuries Per 1,000 Workers	39.8	37.6
Transportation and Public Utilities		
Annual Average Employment	98,353	97,504
Percent	5.3	5.2
Rate of Injuries Per 1,000 Workers	38.4	35.3
Wholesale and Retail Trades		
Annual Average Employment	465,605	470,432
Percent	25.0	24.9
Rate of Injuries Per 1,000 Workers	21.0	20.1
Finance, Insurance and Real Estate		
Annual Average Employment	110,297	116,268
Percent	5.9	6.1
Rate of Injuries Per 1,000 Workers	6.6	7.2
Services		
Annual Average Employment	434,407	447,778
Percent	23.3	23.7
Rate of Injuries Per 1,000 Workers	19.3	19.0
Public Administration and Government		
Annual Average Employment	301,185	309,054
Percent	16.2	16.3
Rate of Injuries Per 1,000 Workers	16.0	14.5
Total - Average Annual Employment	1,864,772	1,891,159
Total - Rate of Injuries Per 1,000 Workers	25.3	24.3

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* Occupational injury and illness rates were calculated by dividing the number of injuries for an industrial category by the average annual employment and are reported as rate per 1,000 workers. Data pertaining to the agricultural industry was suppressed due to the unreliability of the occupation estimates available at the time of publication.

Table 59
NUMBER OF INJURIES AND ILLNESSES BY MAJOR OCCUPATIONAL CATEGORY MINNESOTA, 1985 AND 1986

Occupational Category	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
1. Professional and Technical	2,395	5.0	2,122	4.5	-11.4
2. Managers and Administrators	2,187	4.6	2,126	4.6	- 2.8
3. Sales Workers	969	2.0	893	1.9	- 7.8
4. Clerical Workers	2,814	5.9	2,794	6.0	- 0.7
5. Crafts Workers	8,535	17.8	8,846	18.9	+ 3.6
6. Operatives	13,027	27.1	11,991	25.7	- 8.0
7. Laborers	7,006	14.6	6,960	14.9	- 0.7
8. Farmers and Farm Laborers	376	0.8	321	0.7	-14.6
9. Service Workers	9,458	19.7	9,516	20.4	+ 0.6
Not Reported	1,270	2.6	1,147	2.5	- 9.7
Total	48,037	100.0	46,716	100.0	- 2.7

Table 60
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY TYPE OF ACCIDENT
MINNESOTA, 1985 AND 1986

Type of Accident	Number of Injuries and Illnesses				Percent Change
	1985	Percent of Total	1986	Percent of Total	1985-1986
Struck Against or By Object	8,599	17.9	8,501	18.2	- 0.1
Fall	7,485	15.6	6,959	14.9	- 7.0
Caught In, Under or Between Objects	1,844	3.8	1,711	3.7	- 7.2
Abraded	1,063	2.2	995	2.1	- 6.4
Motion	2,937	6.1	2,749	5.9	- 6.4
Over Exertion	16,138	33.6	15,636	33.5	- 3.1
Contact with Electricity	67	0.1	83	0.2	+23.9
Contact with Extreme Temperature	864	1.8	791	1.7	- 8.4
Contact with Radiation Toxics or Caustics	1,067	2.2	1,054	2.3	- 1.2
Public Transportation	11	0.0	5	0.0	-54.5
Motor Vehicle Accidents	1,157	2.4	1,086	2.3	- 6.1
Exposure to Noise	80	0.2	49	0.1	-38.8
Explosion	70	0.1	68	0.1	- 2.9
Non-Highway Motor Vehicle Accidents	229	0.5	239	0.5	+ 4.4
Accidents, N.E.C.	569	1.2	604	1.3	+ 6.2
Unclassified Data	5,857	12.2	6,186	13.2	+ 5.6
Total	48,037	100.0	46,716	100.0	- 2.7

Table 61
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY
MINNESOTA, 1985 AND 1986

	Number of Injuries and Illnesses				Percent Change
Nature of Injury	1985	Percent of Total	1986	Percent of Total	1985-1986
Amputation	91	0.2	96	0.2	+ 5.5
Laceration	5,439	11.3	5,159	11.0	- 5.1
Contusion	3,737	7.8	3,249	7.0	-13.1
Abrasion	661	1.4	697	1.5	+ 5.4
Heat Burn	885	1.8	837	1.8	- 5.4
Chemical Burn	397	0.8	336	0.7	-15.4
Concussion	128	0.3	94	0.2	-26.6
Fracture	3,205	6.7	2,806	6.0	-12.4
Dislocation	1,386	2.9	1,378	2.9	- 0.6
Sprain	22,163	46.1	20,537	44.0	- 7.3
Hernia	981	2.0	909	1.9	- 7.3
Asphyxia	6	0.0	2	0.0	-66.7
Barometric Effects	1	0.0	3	0.0	+200.0
Frostbite, Freezing	26	0.1	10	0.0	-61.5
Heat Stroke	4	0.0	15	0.0	+275.0
Electric Shock	38	0.1	49	0.1	+28.9
Hearing Loss	97	0.2	71	0.2	-26.8
Infective Diseases	66	0.1	151	0.3	+128.8
Respiratory Diseases	70	0.1	75	0.2	+ 7.1
Pneumoconiosis	12	0.0	7	0.0	-41.7
Poisoning	309	0.6	269	0.6	-12.9
Mental Diseases	136	0.3	126	0.3	- 7.4
Nervous System Diseases	719	1.5	733	1.6	+ 1.9
Neoplasm	6	0.0	4	0.0	-33.3
Radiation Effects	31	0.1	31	0.1	0.0
Dermatitis	289	0.6	273	0.6	- 5.5
Circulatory System	162	0.3	118	0.3	-27.2
Heart Conditions (Includes Heart Attack)	225	0.5	266	0.6	+18.2
Eye Diseases	27	0.1	38	0.1	+40.7
Inflammation of Joints	1,232	2.6	1,156	2.5	- 6.2
Hemorrhoids	16	0.0	16	0.0	0.0
Multiple Injuries	1,216	2.5	1,744	3.7	+43.4
Unclassified	4,276	8.9	5,461	11.7	+27.7
Total	48,037	100.0	46,716	100.0	- 2.7

Table 62
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY PART OF BODY INJURED
MINNESOTA, 1985 AND 1986

Part of Body	Number of Injuries and Illnesses 1985	Percent of Total	1986	Percent of Total	Percent Change 1985-1986
Head	1,180	2.5	1,149	2.5	- 2.6
Eye	1,099	2.3	1,117	2.4	+ 1.6
Neck	864	1.8	811	1.7	- 6.1
Upper Extremities, Except Finger	6,851	14.3	6,538	14.0	- 4.6
Finger	4,358	9.1	4,084	8.7	- 6.3
Trunk, Except Back	5,201	10.8	5,043	10.8	- 3.0
Back	15,043	31.3	14,496	31.0	- 3.6
Lower Extremities, Except Leg	4,088	8.5	4,076	8.7	- 0.3
Leg	3,871	8.1	3,740	8.0	- 3.4
Body Systems	1,127	2.3	1,192	2.6	+ 5.8
Multiple Parts	3,743	7.8	3,913	8.4	+ 4.5
Body Parts Unclassified	612	1.3	557	1.2	- 9.0
Total	48,037	100.0	46,716	100.0	- 2.7

Population

POPULATION OF MINNESOTA

Minnesota's population has grown slowly but steadily from 4,075,970 persons in 1980 to 4,214,013 persons in 1986.[1] This growth rate of 3.4 percent between those years is slower than the national growth rate of 6.4 percent over the same period.

Thirty-two states grew faster than Minnesota between 1980 and 1986. Six of those states -- New Hampshire, Vermont, Maine, Kansas, North Dakota, and New Jersey are the only "frostbelt" states which grew faster. Since 1983, Minnesota has grown faster than any of its immediate neighbors, and it is one of the few states west of the Mississippi River which grew faster between 1983 and 1986 than it did during the first three years of the decade.

Despite its relatively slow but steady growth, Minnesota remains twenty-first among the states on the basis of population size. In absolute numbers, Minnesota's addition of over 138,000 people between 1980 and 1986 was surpassed by 21 other states including the "frostbelt" states of Missouri, New Jersey and New York.

Minnesota's population change is a result of two factors: natural increase (births minus deaths) and migration. Since World War II, Minnesota has been a net exporter of people; therefore, natural increase has been the source of Minnesota's growth. An increase in the number of deaths and a decrease in the number of births since 1981 has led to a declining rate of natural increase. After a sudden surge in outmigration during the period from 1982 to 1984, the rate of outmigration has moderated.

Minnesota recorded approximately 404,100 births between April 1, 1980 and April 1, 1986. During the same period, approximately 201,900 deaths were recorded. The difference, or natural increase, was just over 202,200 persons. The highest rates of natural increase are found in the Twin Cities suburbs and the St. Cloud and Rochester areas, reflecting the large number of young families in these areas. The lowest rates of natural increase are found in southwestern Minnesota and some north-central counties. These areas have a high proportion of elderly residents. Norman and Aitkin Counties actually reported more deaths than births during the period between 1980 and 1986.

Although natural increase added over 202,200 people during the last six years, the population of Minnesota increased by only 138,000 persons. The difference is due to the net outmigration of almost 64,200 persons. The rate of outmigration during the six years has not been constant. Between 1980 and 1982 13,900 more people moved out of Minnesota than moved into the state.

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[1] These data are derived from the 1980 census and estimates of the 1986 population of Minnesota counties, cities, and townships available from the Office of State Demographer. Adapted from "Population Notes, November, 1987," Minnesota State Planning Agency, Office of State Demographer.

Between 1982 and 1984, the magnitude of net outmigration jumped to 38,200 persons. During the last two years, 1984 to 1986, net outmigration moderated to 12,100 persons.

Twenty-four Minnesota counties experienced net inmigration between 1980 and 1986, while the remaining 63 counties lost more people than they received. Counties surrounding the Twin Cities (Sherburne, Scott, Dakota, Chisago, Isanti and Washington Counties) and to the west and north (Hubbard, Roseau, Douglas, Cook, Kandiyohi and Otter Tail Counties) had the highest rates of inmigration. The agricultural areas in the south and west and the Iron Range and lumbering areas of northeastern Minnesota had the highest rates of outmigration. Lake, Pennington, Red Lake, St. Louis and Koochiching Counties all had outmigration rates exceeding ten percent.

Please refer to Technical Notes, page four, for explanation of the methodology used to produce age and sex estimates by county.

Twelve of the twenty fastest-growing counties in Minnesota are within metropolitan areas. Among those metropolitan counties are eight in the Twin Cities area, all three counties in the St. Cloud area and Olmsted in the Rochester area. With the exception of Kandiyohi County in west-central Minnesota and Cook County in the northeast corner of the state, the fastest growing nonmetropolitan counties are in the western lakes region of Minnesota stretching from Douglas County north to Roseau and Lake of the Woods Counties. Counties losing population are found in northeastern Minnesota and along the southern and western borders of the state.

The fastest growing counties in Minnesota are Sherburne and Scott with increases of over 19 percent between 1980 and 1986. Six other fast growing counties--Dakota, Washington, Isanti, Chisago, Anoka and Carver--surround the Twin Cities. Beltrami and Hubbard Counties also had rates of growth which rank them among the ten fastest growing counties in Minnesota. Lake County, a northeastern Minnesota county plagued by high unemployment in the iron-mining industry, had the highest rate of population loss since 1980. Other counties with high rates of population loss include Pennington, St. Louis, Traverse, Cottonwood and Koochiching.

Ten counties had population increases of more than 5,000 persons. All ten counties are located within the Twin Cities, St. Cloud or Rochester metropolitan areas. Dakota County leads the list with a population increase of 34,437 persons. Hennepin County added 26,044 persons and Anoka County grew by 23,232 persons. St. Louis County suffered the largest absolute population loss of all Minnesota counties since the 1980 Census--19,160 persons. Nine other counties located either in northeastern Minnesota or in the farming areas of southern and southwestern Minnesota experienced population losses exceeding 1,000 persons during the past six years.

The pattern of population growth in the state has changed during the decade. Between 1980 and 1983, 26 counties experienced growth of three percent or more. These were a combination of metropolitan counties and counties in northern Minnesota. Between 1983 and 1986, only 12 counties grew three percent or more. With the exception of Roseau County in northwestern Minnesota, these counties were located in the Twin Cities, St. Cloud and Rochester metropolitan areas. Many fast-growing counties in the lakes region of northern Minnesota have seen their growth moderate during the last three years. Between 1980 and 1983, 34 counties recorded population losses. Between 1983 and 1986, the number losing population increased to 48.

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STATE TOTAL	4,214,013	342,767	608,459	757,612	1,251,914	733,946	519,315
MALE	2,071,243	175,779	312,736	380,650	631,375	360,930	209,773
FEMALE	2,142,770	166,988	295,723	376,962	620,539	373,016	309,542
NORTHWESTERN REGION	162,632	13,063	26,359	26,997	40,675	29,386	26,152
MALE	81,767	6,685	13,943	14,006	20,835	14,636	11,662
FEMALE	80,865	6,378	12,416	12,991	19,840	14,750	14,490
NORTHEASTERN REGION	320,875	23,585	46,879	52,653	87,970	58,871	50,917
MALE	159,893	12,329	24,822	26,936	45,383	29,236	21,187
FEMALE	160,982	11,256	22,057	25,717	42,587	29,635	29,730
WEST CENTRAL REGION	208,563	17,007	30,851	37,140	51,634	39,341	32,590
MALE	103,065	8,773	15,409	18,967	26,358	19,532	14,026
FEMALE	105,498	8,234	15,442	18,173	25,276	19,809	18,564
CENTRAL REGION	484,885	44,429	80,920	85,801	131,082	81,429	61,224
MALE	242,547	22,926	41,585	43,696	66,788	40,959	26,593
FEMALE	242,338	21,503	39,335	42,105	64,294	40,470	34,631
SOUTHWESTERN REGION	300,751	25,295	45,512	47,119	74,060	56,890	51,875
MALE	149,295	13,132	23,604	24,316	38,048	28,172	22,023
FEMALE	151,456	12,163	21,908	22,803	36,012	28,718	29,852
SOUTH CENTRAL REGION	220,914	18,041	31,384	42,263	56,523	38,923	33,780
MALE	109,292	9,243	16,618	21,182	29,410	19,082	13,757
FEMALE	111,622	8,798	14,766	21,081	27,113	19,841	20,023
SOUTHEASTERN REGION	412,952	34,384	60,236	73,942	113,741	73,303	57,346
MALE	201,607	17,668	30,838	35,567	57,781	36,285	23,468
FEMALE	211,345	16,716	29,398	38,375	55,960	37,018	33,878
METROPOLITAN REGION	2,102,441	166,963	286,318	391,697	696,229	355,803	205,431
MALE	1,023,777	85,023	145,917	195,980	346,772	173,028	77,057
FEMALE	1,078,664	81,940	140,401	195,717	349,457	182,775	128,374

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
AITKIN	13,421	945	1,952	1,837	3,038	2,709	2,940
MALE	6,675	536	936	1,016	1,474	1,345	1,368
FEMALE	6,746	409	1,016	821	1,564	1,364	1,572
ANOKA	219,230	20,153	39,765	39,725	78,745	32,879	7,963
MALE	110,506	10,307	20,685	20,008	39,809	16,475	3,222
FEMALE	108,724	9,846	19,080	19,717	38,936	16,404	4,741
BECKER	31,258	2,810	5,135	4,524	8,314	6,000	4,475
MALE	15,819	1,500	2,639	2,498	4,162	3,066	1,954
FEMALE	15,439	1,310	2,496	2,026	4,152	2,934	2,521
BELTRAMI	33,720	2,735	5,356	7,421	8,606	5,655	3,947
MALE	17,108	1,356	2,927	3,796	4,475	2,851	1,703
FEMALE	16,612	1,379	2,429	3,625	4,131	2,804	2,244
BENTON	27,455	2,815	4,393	5,561	7,892	4,250	2,544
MALE	13,683	1,431	2,237	2,749	4,011	2,150	1,105
FEMALE	13,772	1,384	2,156	2,812	3,881	2,100	1,439
BIG STONE	7,760	651	1,182	1,166	1,625	1,560	1,576
MALE	3,854	344	601	631	858	761	659
FEMALE	3,906	307	581	535	767	799	917
BLUE EARTH	52,768	3,920	6,712	14,283	13,332	7,959	6,562
MALE	25,449	2,044	3,407	6,772	6,883	3,852	2,491
FEMALE	27,319	1,876	3,305	7,511	6,449	4,107	4,071
BROWN	28,015	2,196	3,798	5,223	6,661	5,309	4,828
MALE	13,417	1,116	2,050	2,470	3,211	2,595	1,975
FEMALE	14,598	1,080	1,748	2,753	3,450	2,714	2,853
CARLTON	28,541	2,245	4,526	4,647	7,445	5,288	4,390
MALE	14,404	1,177	2,390	2,461	3,810	2,658	1,908
FEMALE	14,137	1,068	2,136	2,186	3,635	2,630	2,482

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
CARVER	41,586	3,844	6,593	7,888	13,284	6,632	3,345
MALE	307	2,016	3,551	4,219	6,796	3,378	1,347
FEMALE	279	1,828	3,042	3,669	6,488	3,254	1,998
CASS	21,300	1,628	3,238	2,748	4,896	4,731	4,059
MALE	10,754	809	1,566	1,524	2,551	2,371	1,933
FEMALE	10,546	819	1,672	1,224	2,345	2,360	2,126
CHIPPEWA	14,560	1,221	2,044	2,132	3,607	2,948	2,608
MALE	7,318	618	1,104	1,127	1,946	1,437	1,086
FEMALE	7,242	603	940	1,005	1,661	1,511	1,522
CHISAGO	28,668	2,812	5,032	4,644	8,014	4,605	3,561
MALE	14,547	1,496	2,625	2,435	4,140	2,265	1,586
FEMALE	14,121	1,316	2,407	2,209	3,874	2,340	1,975
CLAY	49,256	3,761	6,607	13,080	12,487	7,769	5,552
MALE	24,114	1,863	3,229	6,294	6,586	3,860	2,282
FEMALE	25,142	1,898	3,378	6,786	5,901	3,909	3,270
CLEARWATER	9,018	773	1,616	1,298	2,153	1,549	1,629
MALE	4,614	414	823	726	1,127	758	766
FEMALE	4,404	359	793	572	1,026	791	863
COOK	4,350	289	641	567	1,336	865	652
MALE	2,116	146	339	279	650	431	271
FEMALE	2,234	143	302	288	686	434	381
COTTONWOOD	13,640	1,084	1,944	1,899	3,145	2,734	2,834
MALE	6,697	595	884	990	1,657	1,382	1,189
FEMALE	6,943	489	1,060	909	1,488	1,352	1,645
CROW WING	43,508	3,474	6,558	6,367	10,646	8,643	7,820
MALE	21,049	1,829	3,254	3,308	5,086	4,171	3,401
FEMALE	22,459	1,645	3,304	3,059	5,560	4,472	4,419

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
DAKOTA	228,716	20,953	39,139	38,161	83,157	35,026	12,280
MALE	113,786	10,535	20,011	19,324	41,161	17,758	4,997
FEMALE	114,930	10,418	19,128	18,837	41,996	17,268	7,283
DODGE	15,210	1,586	2,704	2,388	4,260	2,272	2,000
MALE	7,675	788	1,362	1,267	2,237	1,156	865
FEMALE	7,535	798	1,342	1,121	2,023	1,116	1,135
DOUGLAS	29,953	2,505	4,350	4,882	7,499	5,650	5,067
MALE	14,607	1,251	2,182	2,448	3,770	2,789	2,167
FEMALE	15,346	1,254	2,168	2,434	3,729	2,861	2,900
FARIBAULT	18,424	1,498	2,756	2,431	4,036	3,916	3,787
MALE	8,865	768	1,467	1,285	1,981	1,851	1,513
FEMALE	9,559	730	1,289	1,146	2,055	2,065	2,274
FILLMORE	21,443	1,700	3,253	3,165	4,949	4,065	4,311
MALE	10,732	964	1,751	1,596	2,518	1,988	1,915
FEMALE	10,711	736	1,502	1,569	2,431	2,077	2,396
FREEBORN	34,587	2,672	5,111	5,490	8,671	6,957	5,686
MALE	16,903	1,342	2,522	2,864	4,442	3,425	2,308
FEMALE	17,684	1,330	2,589	2,626	4,229	3,532	3,378
GOODHUE	40,075	3,528	6,235	5,892	10,963	7,427	6,030
MALE	19,981	1,827	3,286	3,125	5,562	3,695	2,486
FEMALE	20,094	1,701	2,949	2,767	5,401	3,732	3,544
GRANT	7,055	527	1,048	946	1,546	1,386	1,602
MALE	3,497	299	552	499	735	696	716
FEMALE	3,558	228	496	447	811	690	886
HENNEPIN	967,455	67,890	110,846	185,694	318,444	171,265	113,316
MALE	465,518	34,187	56,505	92,569	157,670	82,655	41,932
FEMALE	501,937	33,703	54,341	93,125	160,774	88,610	71,384

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
HOUSTON	19,072	1,591	2,934	2,969	5,023	3,609	2,946
MALE	9,696	879	1,486	1,602	2,662	1,806	1,261
FEMALE	9,376	712	1,448	1,367	2,361	1,803	1,685
HUBBARD	15,529	1,198	2,610	2,210	4,033	2,838	2,640
MALE	7,499	511	1,293	1,082	1,963	1,433	1,217
FEMALE	8,030	687	1,317	1,128	2,070	1,405	1,423
ISANTI	26,299	2,362	4,943	4,058	8,394	4,041	2,501
MALE	12,793	1,207	2,454	2,043	3,999	2,041	1,049
FEMALE	13,506	1,155	2,489	2,015	4,395	2,000	1,452
ITASCA	43,914	3,567	7,412	6,723	12,121	7,901	6,190
MALE	22,493	1,939	4,157	3,459	6,219	3,933	2,786
FEMALE	21,421	1,628	3,255	3,264	5,902	3,968	3,404
JACKSON	13,239	1,197	1,938	2,069	3,383	2,545	2,107
MALE	6,653	661	963	1,091	1,838	1,221	879
FEMALE	6,586	536	975	978	1,545	1,324	1,228
KANABEC	12,630	1,172	2,213	1,887	3,313	2,312	1,733
MALE	6,304	618	1,135	999	1,649	1,137	766
FEMALE	6,326	554	1,078	888	1,664	1,175	967
KANDIYOHI	39,879	3,307	5,780	7,576	10,757	6,904	5,555
MALE	19,593	1,677	2,945	3,650	5,467	3,493	2,361
FEMALE	20,286	1,630	2,835	3,926	5,290	3,411	3,194
KITTSON	6,589	533	867	875	1,675	1,380	1,259
MALE	3,272	282	437	423	862	691	577
FEMALE	3,317	251	430	452	813	689	682
KOOCHICHING	16,155	1,277	2,670	2,621	4,091	3,094	2,402
MALE	8,057	649	1,407	1,338	2,050	1,538	1,075
FEMALE	8,098	628	1,263	1,283	2,041	1,556	1,327

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
LAC QUI PARLE	10,129	826	1,482	1,425	2,319	2,100	1,977
MALE	5,075	430	716	774	1,235	1,050	870
FEMALE	5,054	396	766	651	1,084	1,050	1,107
LAKE	11,425	820	1,653	1,734	3,126	2,429	1,663
MALE	6,074	467	851	987	1,720	1,306	743
FEMALE	5,351	353	802	747	1,406	1,123	920
LAKE OF THE WOODS	3,895	281	547	554	990	819	704
MALE	1,978	165	301	289	512	375	336
FEMALE	1,917	116	246	265	478	444	368
LESUEUR	23,607	2,070	3,721	3,321	6,352	4,278	3,865
MALE	11,950	997	1,950	1,807	3,406	2,145	1,645
FEMALE	11,657	1,073	1,771	1,514	2,946	2,133	2,220
LINCOLN	7,740	591	1,217	1,046	1,606	1,600	1,680
MALE	3,866	273	640	569	828	808	748
FEMALE	3,874	318	577	477	778	792	932
LYON	25,506	2,269	3,889	4,970	6,425	4,155	3,798
MALE	12,627	1,232	2,036	2,421	3,292	2,037	1,609
FEMALE	12,879	1,037	1,853	2,549	3,133	2,118	2,189
MCLEOD	30,415	2,791	4,803	4,660	8,370	5,311	4,480
MALE	14,989	1,475	2,563	2,317	4,165	2,615	1,854
FEMALE	15,426	1,316	2,240	2,343	4,205	2,696	2,626
MAHNOMEN	5,561	448	1,086	842	1,230	1,019	936
MALE	2,880	222	569	472	644	525	448
FEMALE	2,681	226	517	370	586	494	488
MARSHALL	12,675	1,051	2,197	1,736	3,118	2,430	2,143
MALE	6,548	613	1,160	906	1,619	1,248	1,002
FEMALE	6,127	438	1,037	830	1,499	1,182	1,141

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
MARTIN	24,115	1,964	3,533	3,639	6,123	4,506	4,350
MALE	12,253	1,057	1,989	1,959	3,277	2,200	1,771
FEMALE	11,862	907	1,544	1,680	2,846	2,306	2,579
MEEKER	21,110	1,919	3,446	3,076	5,305	4,028	3,336
MALE	10,721	1,008	1,852	1,641	2,774	2,022	1,424
FEMALE	10,389	911	1,594	1,435	2,531	2,006	1,912
MILLE LACS	18,671	1,738	2,896	2,727	4,593	3,279	3,438
MALE	9,453	980	1,544	1,492	2,335	1,578	1,524
FEMALE	9,218	758	1,352	1,235	2,258	1,701	1,914
MORRISON	30,228	2,920	5,270	4,929	7,077	5,503	4,529
MALE	15,047	1,502	2,719	2,542	3,545	2,769	1,970
FEMALE	15,181	1,418	2,551	2,387	3,532	2,734	2,559
MOWER	39,243	2,994	5,574	5,618	8,915	8,894	7,248
MALE	18,934	1,557	2,766	2,813	4,561	4,265	2,972
FEMALE	20,309	1,437	2,808	2,805	4,354	4,629	4,276
MURRAY	10,996	872	1,881	1,532	2,545	2,257	1,909
MALE	5,520	432	1,004	813	1,343	1,091	837
FEMALE	5,476	440	877	719	1,202	1,166	1,072
NICOLLET	28,278	2,277	4,096	6,533	8,209	4,307	2,856
MALE	14,474	1,148	2,145	3,338	4,493	2,184	1,166
FEMALE	13,804	1,129	1,951	3,195	3,716	2,123	1,690
NOBLES	21,395	1,631	3,080	3,318	5,298	4,336	3,732
MALE	10,277	798	1,496	1,752	2,532	2,148	1,551
FEMALE	11,118	833	1,584	1,566	2,766	2,188	2,181
NORMAN	9,062	747	1,491	1,144	2,001	1,879	1,800
MALE	4,422	329	799	589	979	915	811
FEMALE	4,640	418	692	555	1,022	964	989

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
OLMSTED	98,850	8,309	13,489	18,981	32,273	16,289	9,509
MALE	47,088	4,257	7,063	8,130	16,004	8,144	3,490
FEMALE	51,762	4,052	6,426	10,851	16,269	8,145	6,019
OTTER TAIL	54,970	4,419	8,397	7,764	13,609	11,291	9,490
MALE	27,022	2,340	4,124	4,049	6,774	5,574	4,161
FEMALE	27,948	2,079	4,273	3,715	6,835	5,717	5,329
PENNINGTON	13,683	1,098	2,011	2,417	3,625	2,249	2,283
MALE	6,759	597	1,022	1,233	1,849	1,092	966
FEMALE	6,924	501	989	1,184	1,776	1,157	1,317
PINE	20,900	1,678	3,377	2,950	5,583	3,984	3,328
MALE	10,826	864	1,746	1,597	3,027	2,105	1,487
FEMALE	10,074	814	1,631	1,353	2,556	1,879	1,841
PIPESTONE	11,155	910	1,672	1,608	2,512	2,248	2,205
MALE	5,381	431	844	856	1,250	1,096	904
FEMALE	5,774	479	828	752	1,262	1,152	1,301
POLK	34,102	2,577	5,434	5,659	8,360	6,265	5,807
MALE	17,022	1,381	2,936	2,954	4,253	3,053	2,445
FEMALE	17,080	1,196	2,498	2,705	4,107	3,212	3,362
POPE	11,698	1,025	1,794	1,450	2,646	2,544	2,239
MALE	5,798	532	885	745	1,394	1,257	985
FEMALE	5,900	493	909	705	1,252	1,287	1,254
RAMSEY	465,287	37,747	56,325	90,281	140,026	82,561	58,347
MALE	222,285	19,522	28,229	44,263	70,268	38,656	21,347
FEMALE	243,002	18,225	28,096	46,018	69,758	43,905	37,000
RED LAKE	5,062	408	950	777	1,166	829	932
MALE	2,505	195	462	404	612	405	427
FEMALE	2,557	213	488	373	554	424	505

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
REDWOOD	18,443	1,448	2,968	2,585	4,541	3,340	3,561
MALE	9,319	734	1,582	1,427	2,367	1,697	1,512
FEMALE	9,124	714	1,386	1,158	2,174	1,643	2,049
RENVILLE	19,213	1,586	2,987	2,662	4,475	3,948	3,555
MALE	9,551	795	1,610	1,406	2,261	1,942	1,537
FEMALE	9,662	791	1,377	1,256	2,214	2,006	2,018
RICE	47,599	3,924	6,858	10,843	13,069	7,285	5,620
MALE	23,221	1,893	3,409	5,395	6,589	3,653	2,282
FEMALE	24,378	2,031	3,449	5,448	6,480	3,632	3,338
ROCK	10,442	942	1,598	1,500	2,560	2,053	1,789
MALE	4,995	486	787	727	1,242	1,004	749
FEMALE	5,447	456	811	773	1,318	1,049	1,040
ROSEAU	13,736	1,214	2,194	2,064	3,718	2,474	2,072
MALE	7,160	620	1,214	1,132	1,940	1,290	964
FEMALE	6,576	594	980	932	1,778	1,184	1,108
ST LOUIS	203,069	14,442	28,025	34,524	56,813	36,585	32,680
MALE	100,074	7,415	14,742	17,396	29,460	18,025	13,036
FEMALE	102,995	7,027	13,283	17,128	27,353	18,560	19,644
SCOTT	52,255	5,094	9,899	9,009	17,491	7,552	3,210
MALE	26,551	2,617	5,204	4,702	8,819	3,857	1,352
FEMALE	25,704	2,477	4,695	4,307	8,672	3,695	1,858
SHERBURNE	35,781	3,316	7,012	5,866	11,973	4,990	2,624
MALE	17,979	1,644	3,513	3,130	6,036	2,509	1,147
FEMALE	17,802	1,672	3,499	2,736	5,937	2,481	1,477
SIBLEY	15,461	1,329	2,570	2,273	3,726	3,009	2,554
MALE	7,778	681	1,349	1,182	1,973	1,467	1,126
FEMALE	7,683	648	1,221	1,091	1,753	1,542	1,428

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STEARNS	115,786	10,351	17,704	27,754	29,406	18,292	12,279
MALE	58,257	5,486	9,355	13,592	15,457	9,312	5,055
FEMALE	57,529	4,865	8,349	14,162	13,949	8,980	7,224
STEELE	30,726	2,830	4,512	5,015	8,719	5,497	4,153
MALE	15,101	1,415	2,226	2,472	4,534	2,679	1,775
FEMALE	15,625	1,415	2,286	2,543	4,185	2,818	2,378
STEVENS	11,128	873	1,505	2,538	2,495	1,958	1,759
MALE	5,628	446	780	1,348	1,383	920	751
FEMALE	5,500	427	725	1,190	1,112	1,038	1,008
SWIFT	12,445	993	1,959	1,961	2,689	2,355	2,488
MALE	6,387	560	1,081	1,069	1,447	1,147	1,083
FEMALE	6,058	433	878	892	1,242	1,208	1,405
TODD	25,456	2,481	4,261	4,034	5,945	4,836	3,899
MALE	12,933	1,306	2,247	2,168	3,043	2,467	1,702
FEMALE	12,523	1,175	2,014	1,866	2,902	2,369	2,197
TRAVERSE	5,088	380	724	750	1,005	1,137	1,092
MALE	2,526	206	382	400	502	571	465
FEMALE	2,562	174	342	350	503	566	627
WABASHA	19,352	1,655	2,912	3,031	4,790	3,466	3,498
MALE	9,804	835	1,479	1,579	2,543	1,831	1,537
FEMALE	9,548	820	1,433	1,452	2,247	1,635	1,961
WADENA	13,748	981	2,486	1,932	3,229	2,585	2,535
MALE	6,501	444	1,143	1,003	1,571	1,224	1,116
FEMALE	7,247	537	1,343	929	1,658	1,361	1,419
WASECA	18,644	1,817	2,641	2,975	5,209	3,295	2,707
MALE	9,371	922	1,436	1,544	2,671	1,663	1,135
FEMALE	9,273	895	1,205	1,431	2,538	1,632	1,572

TABLE 63

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX MINNESOTA, 1986

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
WASHINGTON	127,912	11,282	23,751	20,939	45,082	19,888	6,970
MALE	63,824	5,839	11,732	10,895	22,249	10,249	2,860
FEMALE	64,088	5,443	12,019	10,044	22,833	9,639	4,110
WATONWAN	11,602	970	1,557	1,585	2,875	2,344	2,271
MALE	5,735	510	825	825	1,515	1,125	935
FEMALE	5,867	460	732	760	1,360	1,219	1,336
WILKIN	8,157	707	1,291	1,206	2,033	1,606	1,314
MALE	4,054	336	636	686	1,052	799	545
FEMALE	4,103	371	655	520	981	807	769
WINONA	46,795	3,595	6,654	10,550	12,109	7,542	6,345
MALE	22,472	1,911	3,488	4,724	6,129	3,643	2,577
FEMALE	24,323	1,684	3,166	5,826	5,980	3,899	3,768
WRIGHT	64,455	6,701	11,537	10,344	20,121	9,378	6,374
MALE	32,421	3,310	6,047	5,114	10,338	4,860	2,752
FEMALE	32,034	3,391	5,490	5,230	9,783	4,518	3,622
YELLOW MEDICINE	12,684	1,057	1,642	1,934	2,898	2,468	2,685
MALE	6,472	583	896	1,055	1,546	1,221	1,171
FEMALE	6,212	474	746	879	1,352	1,247	1,514
MINNEAPOLIS	360,000	23,761	31,211	75,003	115,428	55,588	59,009
MALE	170,093	11,951	15,837	37,041	58,973	25,763	20,528
FEMALE	189,907	11,810	15,374	37,962	56,455	29,825	38,481
ST PAUL	267,000	21,513	28,937	51,571	75,912	45,935	43,132
MALE	124,964	11,045	14,590	24,868	38,440	20,715	15,306
FEMALE	142,036	10,468	14,347	26,703	37,472	25,220	27,826
DULUTH	84,016	5,353	10,224	16,045	22,564	14,382	15,448
MALE	39,767	2,708	5,388	7,767	11,494	6,820	5,590
FEMALE	44,249	2,645	4,836	8,278	11,070	7,562	9,858

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* Prepared by MCHS using State Demographer's county totals as input.
** As of 1980 Census.

Appendices

APPENDIX A

DEFINITIONS

DEFINITIONS

ABORTION, INDUCED:

The intentional, premature removal from the uterus of a non-viable fetus.

ABORTION PROCEDURES:

Dilation and curettage (sharp curettage): Mechanical dilation of the cervix with removal of the uterine contents by scraping the uterine wall with a surgical curette.

(Dilation and Evacuation, D & E) (Laminaria and curettage): Dilation of the cervix by insertion of laminaria several hours before removal of uterine contents by suction and sharp curettage.

Hysterectomy/hysterotomy: Removal of the fetus by means of a surgical incision made in the uterine wall. In the case of hysterectomy, the entire uterus is removed.

Menstrual extraction (m. regulation, m. induction): Evacuation of the uterine contents by suction curettage, usually before the diagnosis of pregnancy is reliable. Urine pregnancy test may be negative (-) or positive (+).

Prostaglandin: Induction of labor by injection of a prostaglandin (naturally occurring hormone) solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation. Other hormones may be given intravenously to assist labor.

Saline/fluid exchange: Induction of labor by injection of a sterile salt solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation.

Vacuum curettage: Mechanical dilation of the cervix with removal of the uterine contents by low pressure suction created by an electric suction pump.

ABORTION, RESIDENT:

Abortions to Minnesota residents which occurred in Minnesota and were reported during this Surveillance period.

CAUSE OF DEATH:

The Ninth Revision of the International Classification of Diseases (ICD) was used.

COMPLICATIONS OF INDUCED ABORTION:

Any unfavorable condition related to the abortion as reported by the provider facility including: hemorrhage (more than 500 ml), pelvic infection, fever, cervical injury, uterine perforation, or retained tissue.

CURETTE:

A spoon-shaped surgical instrument.

CURETTAGE:

The removal of material from the uterine wall with a curette. Also, the induction of endometrial bleeding by administration and withdrawal of any progestational agent.

FETAL DEATH:

Fetal death is death prior to the complete expulsion or extraction of a product of conception from its mother, irrespective of the duration of pregnancy. In this summary only the fetal deaths of 20 weeks or more are reported.

FETAL DEATH ORDER:

The number of fetal deaths including the current fetal death.

GESTATION:

The period of development of the fetus, expressed in completed weeks, calculated from the first day of the last menstrual period (LMP).

HIGH RISK BIRTH:

A birth is classified as high risk if any of the following conditions exist:

Mother's age: Less than 17 years or over 39 years.
Prenatal care: Less than 3 visits.
Condition not related to pregnancy: Tuberculosis, rubella, diabetes, cardiac condition, or urinary tract infection.
Condition related to pregnancy: Hydramnios or toxemia.
Condition of labor: Prolonged labor.
Birth weight: 2,499 grams or less (5 lb. 8 oz.)
Birth injury: To brain, spinal cord, fractures, other bone injury, paralysis, or nerve injuries.
Birth condition: Hemolytic diseases of newborn, hyaline membrane D, respiratory distress syndrome, or atelectasis.
Congenital anomaly

INFANT DEATH

A death under one year of age.

LAMINARIA:

Sterile, dried marine plant stems which are capable of expanding with fluid absorption.

LIVE BIRTH:

Live birth means the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached, each product of such a birth is considered a live born.

LIVE BIRTH ORDER:

The number of live births including the current birth.

MATERNAL DEATH:

Maternal death is a death attributable to delivery or a complication of pregnancy, childbirth, or the puerperium, as defined by the International Classification of Diseases.

NEONATAL DEATH:

A death to an infant under 28 days of age.

RATE:

Rates are given per 1,000 except for certain causes of death when they are stated as per 100,000. See Technical Notes, page 8 for explanations of specific rates included in this report.

REGION:

Region refers to the eight Minnesota Department of Health Districts. Region names and counties within regions follow:

Northwestern:	Beltrami, Clearwater, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake and Roseau
Northeastern:	Aitkin, Carlton, Cook, Itasca, Koochiching, Lake, and St. Louis

West Central: Becker, Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin

Central: Benton, Cass, Chisago, Crow Wing, Isanti, Kanabec, Mille Lacs, Morrison, Pine, Sherburne, Stearns, Todd, Wadena, and Wright

Southwestern: Big Stone, Chippewa, Cottonwood, Jackson, Kandiyohi, Lac Qui Parle, Lincoln, Lyon, McLeod, Meeker, Murray, Nobles, Pipestone, Redwood, Renville, Rock, Swift, and Yellow Medicine

South Central: Blue Earth, Brown, Faribault, Le Sueur, Martin, Nicollet, Sibley, Waseca, and Watonwan

Southeastern: Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona

Metropolitan: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington.

RESIDENCE:

This is the geographic area of the usual place of abode of the deceased at the time of death, of the mother in the case of live births or fetal deaths, and of the induced abortion recipient. This means, in general, the place where one lives and sleeps most of the time. However, when usual residence is in a nursing home or other institution, where the patient resided for the purpose of receiving care, residence is coded to the place where the patient lived prior to admission to the institution.

RESIDENT PERCENTAGE, REPORTED INDUCED ABORTIONS:

The number of Minnesota residents receiving induced abortions per 100 total reported induced abortions occurring in Minnesota. Most tables relating to abortions include resident percentages pertinent to selected variables contained within the individual tables.

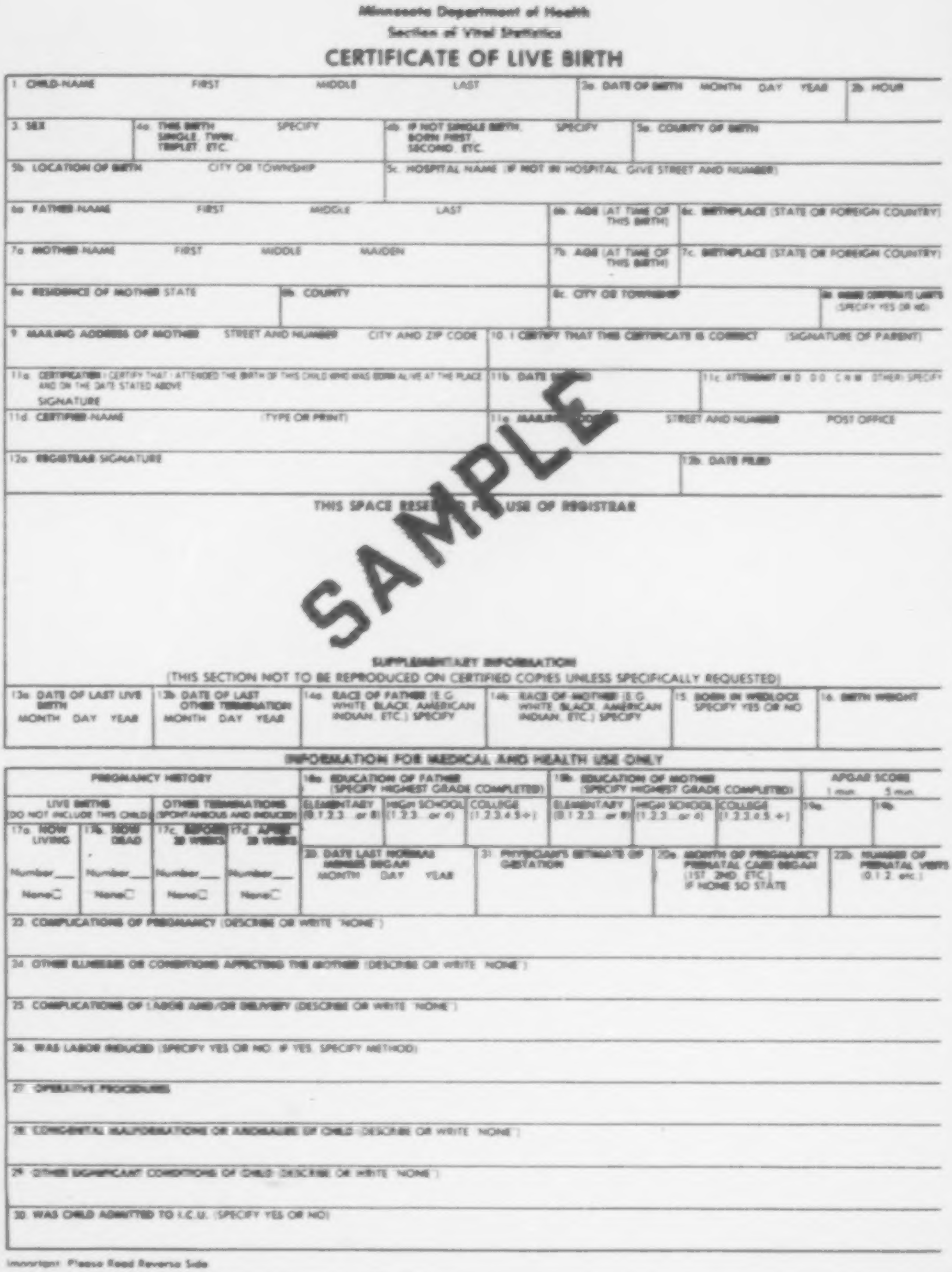
TRIMESTER:

One third of the total gestational period necessary for a full-term pregnancy. Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.

APPENDIX B

DATA COLLECTION INSTRUMENTS

FIGURE 8



Minnesota Department of Health
Section of Vital Statistics

CERTIFICATE OF LIVE BIRTH

1. CHILD-NAME FIRST MIDDLE LAST
2a. DATE OF BIRTH MONTH DAY YEAR
2b. HOUR
3. SEX
4a. THIS BIRTH SINGLE, TWIN, TRIPLET, ETC. SPECIFY
4b. IF NOT SINGLE BIRTH, BORN FIRST, SECOND, ETC. SPECIFY
5a. COUNTY OF BIRTH
5b. LOCATION OF BIRTH CITY OR TOWNSHIP
5c. HOSPITAL NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)
6a. FATHER-NAME FIRST MIDDLE LAST
6b. AGE (AT TIME OF THIS BIRTH)
6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a. MOTHER-NAME FIRST MIDDLE MAIDEN
7b. AGE (AT TIME OF THIS BIRTH)
7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a. RESIDENCE OF MOTHER STATE
8b. COUNTY
8c. CITY OR TOWNSHIP
8d. INSIDE CORPORATE LIMITS (SPECIFY YES OR NO)
9. MAILING ADDRESS OF MOTHER STREET AND NUMBER CITY AND ZIP CODE
10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)
11a. CERTIFICATION I CERTIFY THAT I ATTENDED THE BIRTH OF THIS CHILD WHO WAS BORN ALIVE AT THE PLACE AND ON THE DATE STATED ABOVE
SIGNATURE
11b. DATE SIGNED
11c. ATTENDANT (M.D., D.O., C.N.M., OTHER) SPECIFY
11d. CERTIFIER-NAME (TYPE OR PRINT)
11e. MAILING ADDRESS STREET AND NUMBER POST OFFICE
12a. REGISTRAR SIGNATURE
12b. DATE FILED

THIS SPACE RESERVED FOR USE OF REGISTRAR

SAMPLE

SUPPLEMENTARY INFORMATION
(THIS SECTION NOT TO BE REPRODUCED ON CERTIFIED COPIES UNLESS SPECIFICALLY REQUESTED)

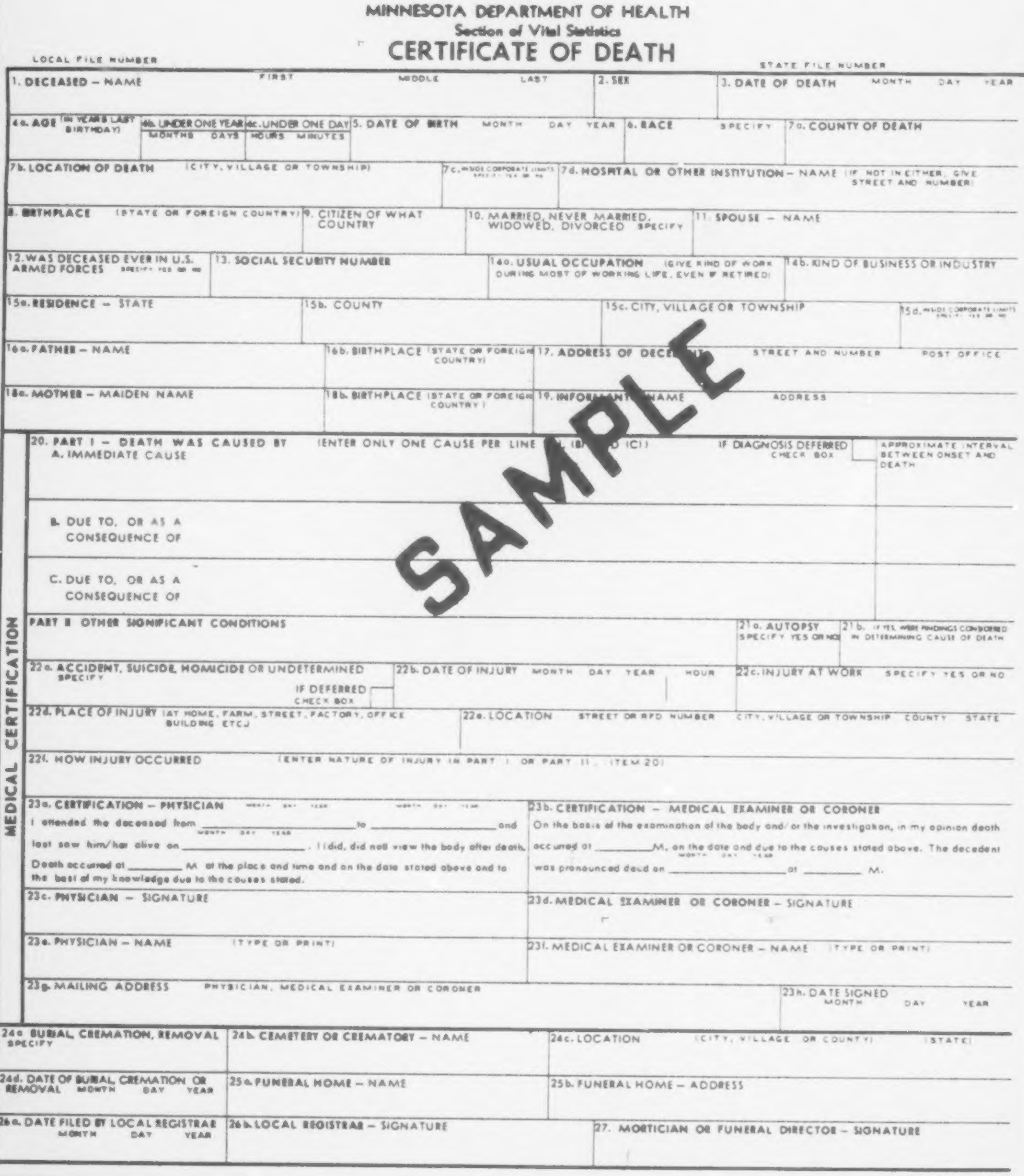
13a. DATE OF LAST LIVE BIRTH MONTH DAY YEAR
13b. DATE OF LAST OTHER TERMINATION MONTH DAY YEAR
14a. RACE OF FATHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY
14b. RACE OF MOTHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY
15. BORN IN WEDLOCK SPECIFY YES OR NO
16. BIRTH WEIGHT

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

PREGNANCY HISTORY
LIVE BIRTHS (DO NOT INCLUDE THIS CHILD)
17a. NOW LIVING Number___ None☐
17b. NOW DEAD Number___ None☐
OTHER TERMINATIONS (SPONTANEOUS AND INDUCED)
17c. BEFORE 20 WEEKS Number___ None☐
17d. AFTER 20 WEEKS Number___ None☐
18a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED) ELEMENTARY (0,1,2,3, ... or 8) HIGH SCHOOL (1,2,3, ... or 4) COLLEGE (1,2,3,4,5+)
18b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED) ELEMENTARY (0,1,2,3, ... or 8) HIGH SCHOOL (1,2,3, ... or 4) COLLEGE (1,2,3,4,5+)
APGAR SCORE 19a. 1 min. 19b. 5 min.
20. DATE LAST NORMAL MENSES BEGAN MONTH DAY YEAR
21. PHYSICIAN'S ESTIMATE OF GESTATION
22a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2ND, ETC.) IF NONE SO STATE
22b. NUMBER OF PRENATAL VISITS (0,1,2, etc.)
23. COMPLICATIONS OF PREGNANCY (DESCRIBE OR WRITE "NONE")
24. OTHER ILLNESSES OR CONDITIONS AFFECTING THE MOTHER (DESCRIBE OR WRITE "NONE")
25. COMPLICATIONS OF LABOR AND/OR DELIVERY (DESCRIBE OR WRITE "NONE")
26. WAS LABOR INDUCED (SPECIFY YES OR NO. IF YES, SPECIFY METHOD)
27. OPERATIVE PROCEDURES
28. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE "NONE")
29. OTHER SIGNIFICANT CONDITIONS OF CHILD (DESCRIBE OR WRITE "NONE")
30. WAS CHILD ADMITTED TO I.C.U. (SPECIFY YES OR NO)

Important: Please Read Reverse Side

FIGURE 9



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
CERTIFICATE OF DEATH

LOCAL FILE NUMBER
STATE FILE NUMBER

SAMPLE

1. DECEASED – NAME FIRST MIDDLE LAST
2. SEX
3. DATE OF DEATH MONTH DAY YEAR
4a. AGE (IN YEARS LAST BIRTHDAY)
4b. UNDER ONE YEAR MONTHS DAYS
4c. UNDER ONE DAY HOURS MINUTES
5. DATE OF BIRTH MONTH DAY YEAR
6. RACE SPECIFY
7a. COUNTY OF DEATH
7b. LOCATION OF DEATH (CITY, VILLAGE OR TOWNSHIP)
7c. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
7d. HOSPITAL OR OTHER INSTITUTION – NAME (IF NOT IN EITHER, GIVE STREET AND NUMBER)
8. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
9. CITIZEN OF WHAT COUNTRY
10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED SPECIFY
11. SPOUSE – NAME
12. WAS DECEASED EVER IN U.S. ARMED FORCES SPECIFY YES OR NO
13. SOCIAL SECURITY NUMBER
14a. USUAL OCCUPATION (GIVE KIND OF WORK DURING MOST OF WORKING LIFE, EVEN IF RETIRED)
14b. KIND OF BUSINESS OR INDUSTRY
15a. RESIDENCE – STATE
15b. COUNTY
15c. CITY, VILLAGE OR TOWNSHIP
15d. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
16a. FATHER – NAME
16b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
17. ADDRESS OF DECE[illegible] STREET AND NUMBER POST OFFICE
18a. MOTHER – MAIDEN NAME
18b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
19. INFORM[illegible] NAME ADDRESS

MEDICAL CERTIFICATION

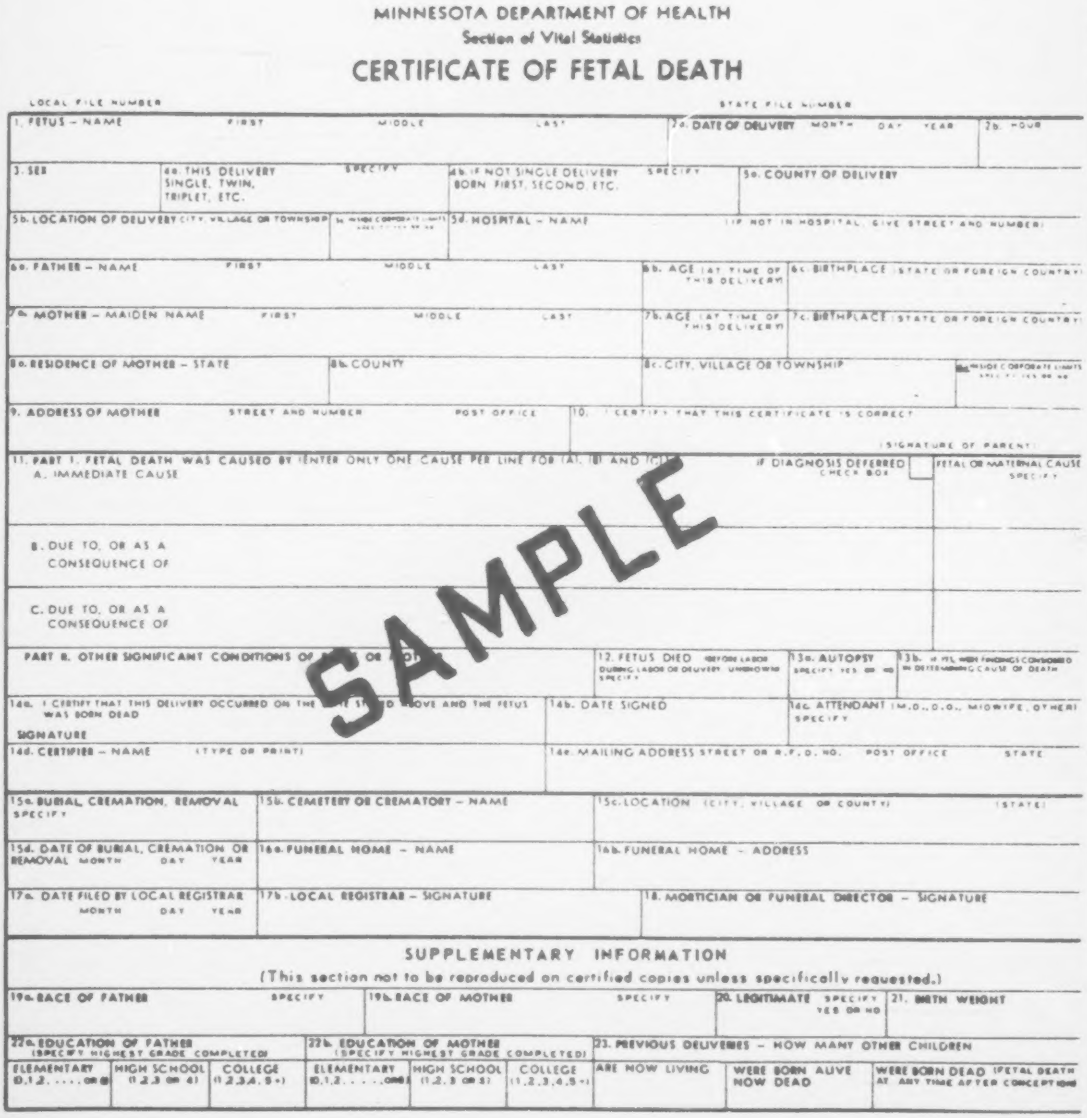
20. PART I – DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE [illegible] (B) [illegible] (C))
A. IMMEDIATE CAUSE
IF DIAGNOSIS DEFERRED CHECK BOX ☐
APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH
B. DUE TO, OR AS A CONSEQUENCE OF
C. DUE TO, OR AS A CONSEQUENCE OF
PART II OTHER SIGNIFICANT CONDITIONS
21a. AUTOPSY SPECIFY YES OR NO
21b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH
22a. ACCIDENT, SUICIDE, HOMICIDE OR UNDETERMINED SPECIFY
IF DEFERRED CHECK BOX ☐
22b. DATE OF INJURY MONTH DAY YEAR HOUR
22c. INJURY AT WORK SPECIFY YES OR NO
22d. PLACE OF INJURY (AT HOME, FARM, STREET, FACTORY, OFFICE BUILDING, ETC.)
22e. LOCATION STREET OR RFD NUMBER CITY, VILLAGE OR TOWNSHIP COUNTY STATE
22f. HOW INJURY OCCURRED (ENTER NATURE OF INJURY IN PART I OR PART II, ITEM 20)

23a. CERTIFICATION – PHYSICIAN
I attended the deceased from ______ (MONTH DAY YEAR) to ______ (MONTH DAY YEAR) and last saw him/her alive on ______ (MONTH DAY YEAR). I did, did not view the body after death. Death occurred at ______ M. at the place and time and on the date stated above and to the best of my knowledge due to the causes stated.

23b. CERTIFICATION – MEDICAL EXAMINER OR CORONER
On the basis of the examination of the body and/or the investigation, in my opinion death occurred at ______ M. on the date and due to the causes stated above. The decedent was pronounced dead on ______ (MONTH DAY YEAR) at ______ M.

23c. PHYSICIAN – SIGNATURE
23d. MEDICAL EXAMINER OR CORONER – SIGNATURE
23e. PHYSICIAN – NAME (TYPE OR PRINT)
23f. MEDICAL EXAMINER OR CORONER – NAME (TYPE OR PRINT)
23g. MAILING ADDRESS PHYSICIAN, MEDICAL EXAMINER OR CORONER
23h. DATE SIGNED MONTH DAY YEAR
24a. BURIAL, CREMATION, REMOVAL SPECIFY
24b. CEMETERY OR CREMATORY – NAME
24c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)
24d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR
25a. FUNERAL HOME – NAME
25b. FUNERAL HOME – ADDRESS
26a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR
26b. LOCAL REGISTRAR – SIGNATURE
27. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

FIGURE 10



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics

CERTIFICATE OF FETAL DEATH

LOCAL FILE NUMBER

STATE FILE NUMBER

1. FETUS – NAME FIRST MIDDLE LAST
2a. DATE OF DELIVERY MONTH DAY YEAR
2b. HOUR
3. SEX
4a. THIS DELIVERY SINGLE, TWIN, TRIPLET, ETC. SPECIFY
4b. IF NOT SINGLE DELIVERY BORN FIRST, SECOND, ETC. SPECIFY
5a. COUNTY OF DELIVERY
5b. LOCATION OF DELIVERY CITY, VILLAGE OR TOWNSHIP
5c. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
5d. HOSPITAL – NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)
6a. FATHER – NAME FIRST MIDDLE LAST
6b. AGE (AT TIME OF THIS DELIVERY)
6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a. MOTHER – MAIDEN NAME FIRST MIDDLE LAST
7b. AGE (AT TIME OF THIS DELIVERY)
7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a. RESIDENCE OF MOTHER – STATE
8b. COUNTY
8c. CITY, VILLAGE OR TOWNSHIP
8d. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
9. ADDRESS OF MOTHER STREET AND NUMBER POST OFFICE
10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)
11. PART I. FETAL DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (A), (B) AND (C))
A. IMMEDIATE CAUSE
IF DIAGNOSIS DEFERRED CHECK BOX ☐
FETAL OR MATERNAL CAUSE SPECIFY
B. DUE TO, OR AS A CONSEQUENCE OF
C. DUE TO, OR AS A CONSEQUENCE OF
PART II. OTHER SIGNIFICANT CONDITIONS OF [illegible] OR [illegible]
12. FETUS DIED BEFORE LABOR DURING LABOR OR DELIVERY UNKNOWN SPECIFY
13a. AUTOPSY SPECIFY YES OR NO
13b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH
14a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE [illegible] STATED ABOVE AND THE FETUS WAS BORN DEAD
SIGNATURE
14b. DATE SIGNED
14c. ATTENDANT (M.D., D.O., MIDWIFE, OTHER) SPECIFY
14d. CERTIFIER – NAME (TYPE OR PRINT)
14e. MAILING ADDRESS STREET OR R.F.D. NO. POST OFFICE STATE
15a. BURIAL, CREMATION, REMOVAL SPECIFY
15b. CEMETERY OR CREMATORY – NAME
15c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)
15d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR
16a. FUNERAL HOME – NAME
16b. FUNERAL HOME – ADDRESS
17a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR
17b. LOCAL REGISTRAR – SIGNATURE
18. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

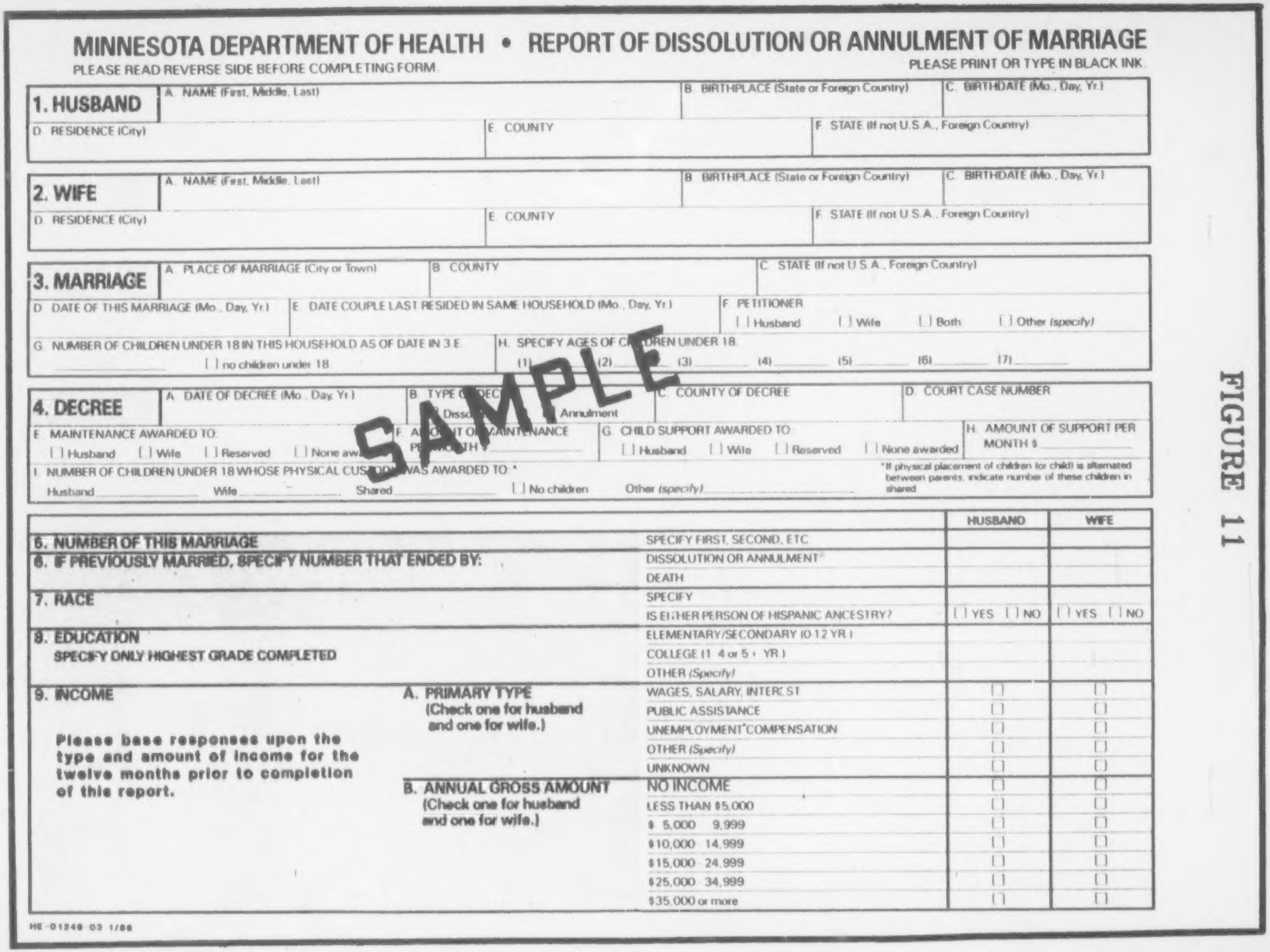
SUPPLEMENTARY INFORMATION

(This section not to be reproduced on certified copies unless specifically requested.)

19a. RACE OF FATHER SPECIFY
19b. RACE OF MOTHER SPECIFY
20. LEGITIMATE SPECIFY YES OR NO
21. BIRTH WEIGHT
22a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8)
HIGH SCHOOL (1,2,3 OR 4)
COLLEGE (1,2,3,4,5+)
22b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8)
HIGH SCHOOL (1,2,3 OR 4)
COLLEGE (1,2,3,4,5+)
23. PREVIOUS DELIVERIES – HOW MANY OTHER CHILDREN
ARE NOW LIVING
WERE BORN ALIVE NOW DEAD
WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION)

SAMPLE

FIGURE 11



MINNESOTA DEPARTMENT OF HEALTH • REPORT OF DISSOLUTION OR ANNULMENT OF MARRIAGE

PLEASE READ REVERSE SIDE BEFORE COMPLETING FORM.

PLEASE PRINT OR TYPE IN BLACK INK.

1. HUSBAND

A. NAME (First, Middle, Last)
B. BIRTHPLACE (State or Foreign Country)
C. BIRTHDATE (Mo., Day, Yr.)
D. RESIDENCE (City)
E. COUNTY
F. STATE (If not U.S.A., Foreign Country)

2. WIFE

A. NAME (First, Middle, Last)
B. BIRTHPLACE (State or Foreign Country)
C. BIRTHDATE (Mo., Day, Yr.)
D. RESIDENCE (City)
E. COUNTY
F. STATE (If not U.S.A., Foreign Country)

3. MARRIAGE

A. PLACE OF MARRIAGE (City or Town)
B. COUNTY
C. STATE (If not U.S.A., Foreign Country)
D. DATE OF THIS MARRIAGE (Mo., Day, Yr.)
E. DATE COUPLE LAST RESIDED IN SAME HOUSEHOLD (Mo., Day, Yr.)
F. PETITIONER ☐ Husband ☐ Wife ☐ Both ☐ Other *(specify)*
G. NUMBER OF CHILDREN UNDER 18 IN THIS HOUSEHOLD AS OF DATE IN 3 E. ________ ☐ no children under 18
H. SPECIFY AGES OF CHILDREN UNDER 18. (1) ____ (2) ____ (3) ____ (4) ____ (5) ____ (6) ____ (7) ____

4. DECREE

A. DATE OF DECREE (Mo., Day, Yr.)
B. TYPE OF DECREE ☐ Dissolution ☐ Annulment
C. COUNTY OF DECREE
D. COURT CASE NUMBER
E. MAINTENANCE AWARDED TO: ☐ Husband ☐ Wife ☐ Reserved ☐ None awarded
F. AMOUNT OF MAINTENANCE PER MONTH $ ________
G. CHILD SUPPORT AWARDED TO: ☐ Husband ☐ Wife ☐ Reserved ☐ None awarded
H. AMOUNT OF SUPPORT PER MONTH $ ________
I. NUMBER OF CHILDREN UNDER 18 WHOSE PHYSICAL CUSTODY WAS AWARDED TO: * Husband ________ Wife ________ Shared ________ ☐ No children Other *(specify)* ________

*If physical placement of children (or child) is alternated between parents, indicate number of these children in shared

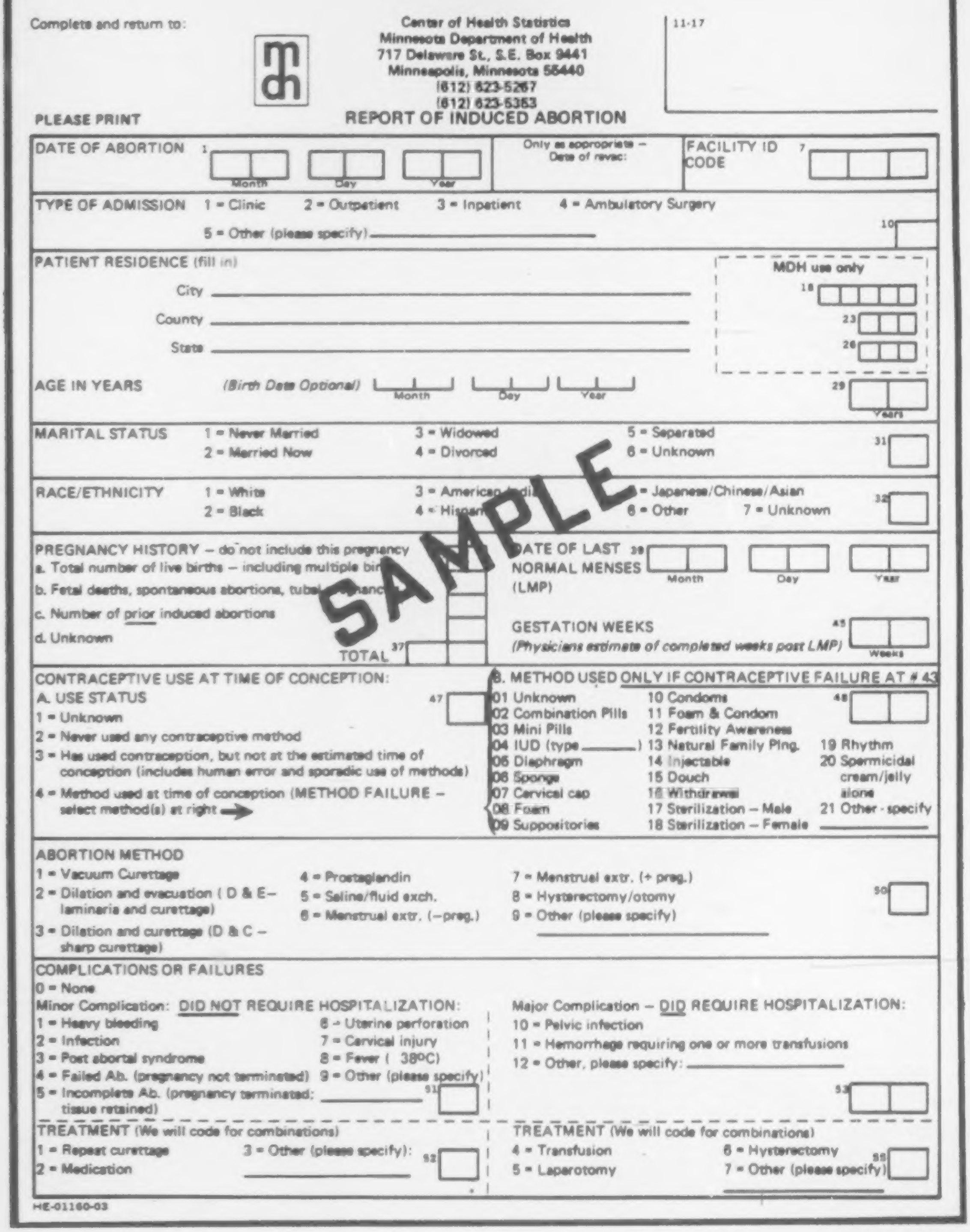
		HUSBAND	WIFE
5. NUMBER OF THIS MARRIAGE	SPECIFY FIRST, SECOND, ETC		
6. IF PREVIOUSLY MARRIED, SPECIFY NUMBER THAT ENDED BY:	DISSOLUTION OR ANNULMENT		
	DEATH		
7. RACE	SPECIFY		
	IS EITHER PERSON OF HISPANIC ANCESTRY?	☐ YES ☐ NO	☐ YES ☐ NO
8. EDUCATION SPECIFY ONLY HIGHEST GRADE COMPLETED	ELEMENTARY/SECONDARY (0-12 YR.)		
	COLLEGE (1-4 or 5+ YR.)		
	OTHER *(Specify)*		
9. INCOME — **A. PRIMARY TYPE** (Check one for husband and one for wife.)	WAGES, SALARY, INTEREST	☐	☐
	PUBLIC ASSISTANCE	☐	☐
	UNEMPLOYMENT COMPENSATION	☐	☐
	OTHER *(Specify)*	☐	☐
	UNKNOWN	☐	☐
B. ANNUAL GROSS AMOUNT (Check one for husband and one for wife.)	NO INCOME	☐	☐
	LESS THAN $5,000	☐	☐
	$ 5,000 - 9,999	☐	☐
	$10,000 - 14,999	☐	☐
	$15,000 - 24,999	☐	☐
	$25,000 - 34,999	☐	☐
	$35,000 or more	☐	☐

Please base responses upon the type and amount of income for the twelve months prior to completion of this report.

SAMPLE

HE-01249-03 1/88

FIGURE 12



Complete and return to:

Center of Health Statistics
Minnesota Department of Health
717 Delaware St., S.E. Box 9441
Minneapolis, Minnesota 55440
(612) 623-5267
(612) 623-5353

11-17

PLEASE PRINT

REPORT OF INDUCED ABORTION

SAMPLE

DATE OF ABORTION 1 ☐☐ Month ☐☐ Day ☐☐ Year

Only as appropriate – Date of revac:

FACILITY ID CODE 7 ☐☐☐

TYPE OF ADMISSION 1 = Clinic 2 = Outpatient 3 = Inpatient 4 = Ambulatory Surgery
5 = Other (please specify) ____ 10 ☐

PATIENT RESIDENCE (fill in)
City ____
County ____
State ____

MDH use only
18 ☐☐☐☐☐
23 ☐☐☐
26 ☐☐☐

AGE IN YEARS (Birth Date Optional) Month Day Year 29 ☐☐ Years

MARITAL STATUS 31 ☐
1 = Never Married
2 = Married Now
3 = Widowed
4 = Divorced
5 = Seperated
6 = Unknown

RACE/ETHNICITY 32 ☐
1 = White
2 = Black
3 = American Indi
4 = Hispan
= Japanese/Chinese/Asian
6 = Other
7 = Unknown

PREGNANCY HISTORY – do not include this pregnancy
a. Total number of live births – including multiple bir
b. Fetal deaths, spontaneous abortions, tubal
c. Number of prior induced abortions
d. Unknown
TOTAL 37 ☐☐

DATE OF LAST NORMAL MENSES (LMP) 39 ☐☐ Month ☐☐ Day ☐☐ Year

GESTATION WEEKS 45 ☐☐ Weeks
(Physicians estimate of completed weeks post LMP)

CONTRACEPTIVE USE AT TIME OF CONCEPTION:
A. USE STATUS 47 ☐
1 = Unknown
2 = Never used any contraceptive method
3 = Has used contraception, but not at the estimated time of conception (includes human error and sporadic use of methods)
4 = Method used at time of conception (METHOD FAILURE – select method(s) at right →

B. METHOD USED ONLY IF CONTRACEPTIVE FAILURE AT # 43 48 ☐☐
01 Unknown
02 Combination Pills
03 Mini Pills
04 IUD (type ____)
05 Diaphragm
06 Sponge
07 Cervical cap
08 Foam
09 Suppositories
10 Condoms
11 Foam & Condom
12 Fertility Awareness
13 Natural Family Plng.
14 Injectable
15 Douch
16 Withdrawal
17 Sterilization – Male
18 Sterilization – Female
19 Rhythm
20 Spermicidal cream/jelly alone
21 Other - specify ____

ABORTION METHOD 50 ☐
1 = Vacuum Curettage
2 = Dilation and evacuation (D & E– laminaria and curettage)
3 = Dilation and curettage (D & C – sharp curettage)
4 = Prostaglandin
5 = Saline/fluid exch.
6 = Menstrual extr. (–preg.)
7 = Menstrual extr. (+ preg.)
8 = Hysterectomy/otomy
9 = Other (please specify) ____

COMPLICATIONS OR FAILURES
0 = None

Minor Complication: DID NOT REQUIRE HOSPITALIZATION: 51 ☐
1 = Heavy bleeding
2 = Infection
3 = Post abortal syndrome
4 = Failed Ab. (pregnancy not terminated)
5 = Incomplete Ab. (pregnancy terminated: tissue retained)
6 – Uterine perforation
7 = Cervical injury
8 = Fever (38°C)
9 = Other (please specify) ____

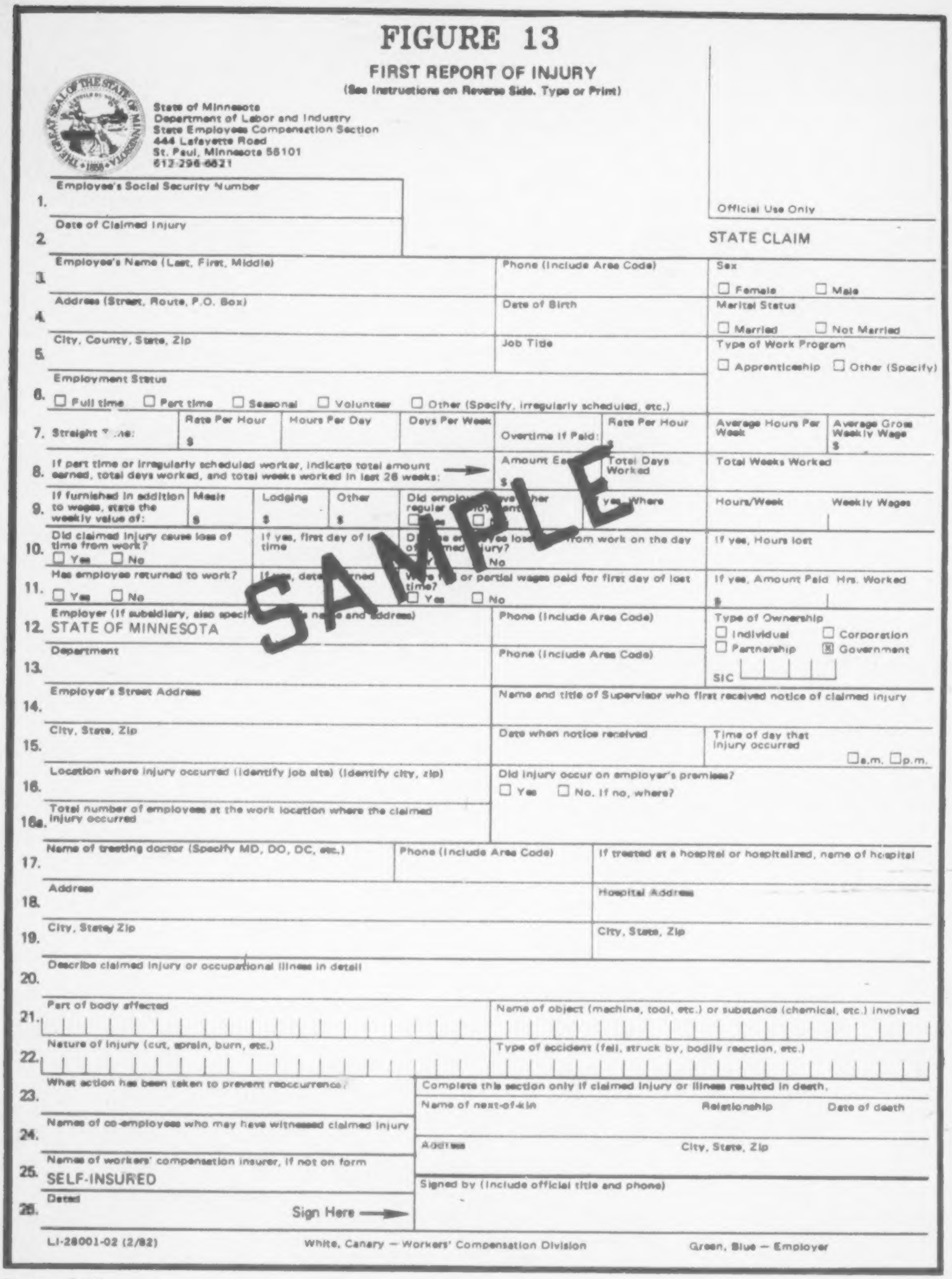
Major Complication – DID REQUIRE HOSPITALIZATION: 53 ☐☐
10 = Pelvic infection
11 = Hemorrhage requiring one or more transfusions
12 = Other, please specify: ____

TREATMENT (We will code for combinations) 52 ☐
1 = Repeat curettage
2 = Medication
3 = Other (please specify): ____

TREATMENT (We will code for combinations) 55 ☐
4 = Transfusion
5 = Laparotomy
6 = Hysterectomy
7 = Other (please specify) ____

HE-01160-03

FIGURE 13



FIRST REPORT OF INJURY

(See Instructions on Reverse Side. Type or Print)

State of Minnesota
Department of Labor and Industry
State Employees Compensation Section
444 Lafayette Road
St. Paul, Minnesota 55101
612-296-6621

Official Use Only

STATE CLAIM

1. Employee's Social Security Number

2. Date of Claimed Injury

3. Employee's Name (Last, First, Middle) | Phone (Include Area Code) | Sex ☐ Female ☐ Male

4. Address (Street, Route, P.O. Box) | Date of Birth | Marital Status ☐ Married ☐ Not Married

5. City, County, State, Zip | Job Title | Type of Work Program ☐ Apprenticeship ☐ Other (Specify)

6. Employment Status ☐ Full time ☐ Part time ☐ Seasonal ☐ Volunteer ☐ Other (Specify, irregularly scheduled, etc.)

7. Straight Time: | Rate Per Hour $ | Hours Per Day | Days Per Week | Overtime If Paid: | Rate Per Hour $ | Average Hours Per Week | Average Gross Weekly Wage $

8. If part time or irregularly scheduled worker, indicate total amount earned, total days worked, and total weeks worked in last 26 weeks: → | Amount Ea[illegible] $ | Total Days Worked | Total Weeks Worked

9. If furnished in addition to wages, state the weekly value of: | Meals $ | Lodging $ | Other $ | Did emplo[illegible] [illegible]ve [illegible]her regular [illegible]ent ☐ [illegible] ☐ [illegible] | [illegible] yes, Where | Hours/Week | Weekly Wages

10. Did claimed injury cause loss of time from work? ☐ Yes ☐ No | If yes, first day of l[illegible] time | D[illegible] [illegible]yee los[illegible] [illegible] from work on the day of [illegible]med [illegible]ury? [illegible] No | If yes, Hours lost

11. Has employee returned to work? ☐ Yes ☐ No | If [illegible], date [illegible]rned | W[illegible] [illegible] or partial wages paid for first day of lost time? ☐ Yes ☐ No | If yes, Amount Paid $ | Hrs. Worked

12. Employer (If subsidiary, also speci[illegible] [illegible] name and address) STATE OF MINNESOTA | Phone (Include Area Code) | Type of Ownership ☐ Individual ☐ Corporation ☐ Partnership ☒ Government

13. Department | Phone (Include Area Code) | SIC

14. Employer's Street Address | Name and title of Supervisor who first received notice of claimed injury

15. City, State, Zip | Date when notice received | Time of day that injury occurred ☐a.m. ☐p.m.

16. Location where injury occurred (identify job site) (identify city, zip) | Did injury occur on employer's premises? ☐ Yes ☐ No. If no, where?

16a. Total number of employees at the work location where the claimed injury occurred

17. Name of treating doctor (Specify MD, DO, DC, etc.) | Phone (Include Area Code) | If treated at a hospital or hospitalized, name of hospital

18. Address | Hospital Address

19. City, State, Zip | City, State, Zip

20. Describe claimed injury or occupational illness in detail

21. Part of body affected | Name of object (machine, tool, etc.) or substance (chemical, etc.) involved

22. Nature of injury (cut, sprain, burn, etc.) | Type of accident (fall, struck by, bodily reaction, etc.)

23. What action has been taken to prevent reoccurrence?

24. Names of co-employees who may have witnessed claimed injury

25. Names of workers' compensation insurer, if not on form SELF-INSURED

26. Dated | Sign Here →

Complete this section only if claimed injury or illness resulted in death.

Name of next-of-kin | Relationship | Date of death

Address | City, State, Zip

Signed by (include official title and phone)

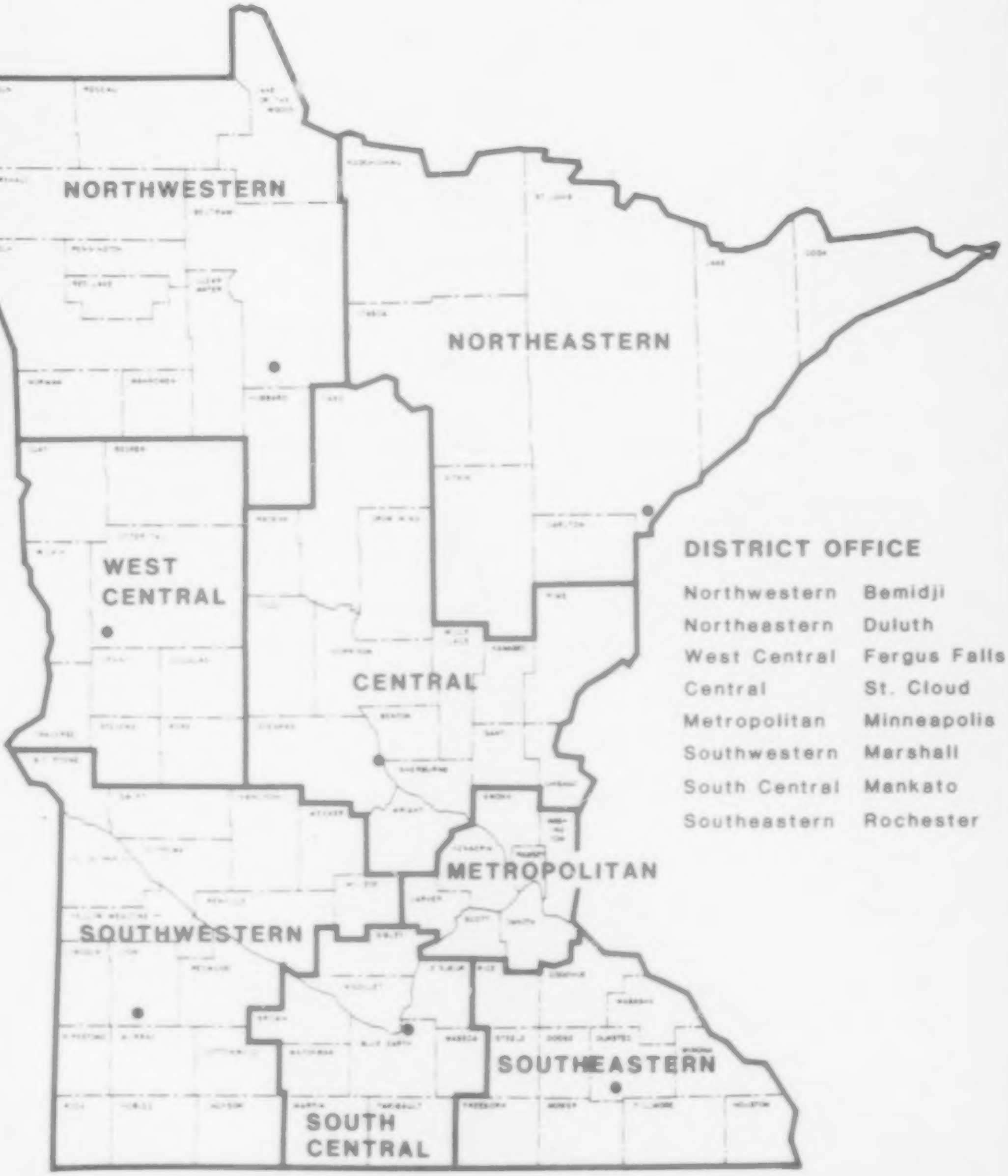
LI-28001-02 (2/82) | White, Canary — Workers' Compensation Division | Green, Blue — Employer

APPENDIX C

MAP OF HEALTH DISTRICTS AND OFFICES

Figure 14

Health Districts and Offices


NORTHWESTERN
NORTHEASTERN
WEST CENTRAL
CENTRAL
METROPOLITAN
SOUTHWESTERN
SOUTHEASTERN
SOUTH CENTRAL

DISTRICT	OFFICE
Northwestern	Bemidji
Northeastern	Duluth
West Central	Fergus Falls
Central	St. Cloud
Metropolitan	Minneapolis
Southwestern	Marshall
South Central	Mankato
Southeastern	Rochester

54190-2-U

MINNESOTA

HEALTH STATISTICS

1987

Published June, 1989

Minnesota Department of Health
Minnesota Center for Health Statistics
717 Delaware Street S.E.
P.O. Box 9441
Minneapolis, Minnesota 55440

Illustrations by: Deb Bruers

FOREWORD

Minnesota Health Statistics 1987 was prepared by the Minnesota Center for Health Statistics of the Minnesota Department of Health and is the 37th annual summary of vital statistics published by the Department. The document also responds, in part, to the requirements of a contract held with the United States Department of Health, Education, and Welfare to establish and implement a cooperative health statistics program for Minnesota.

If you have suggestions concerning the report format, queries concerning the data formulae used in developing the statistics, or if you have requests for additional statistics or other related publications, please contact:

Minnesota Department of Health
Minnesota Center for Health Statistics
717 S.E. Delaware St.
P.O. Box 9441
Minneapolis, MN 55440

Telephone Number: (612) 623-5353

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Introduction

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TECHNICAL NOTES

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A. CHANGES IN FORMAT

In 1986, several new tables were introduced describing selected elements of the Minnesota divorce experience. Similar tables appear in this 1987 publication.

Another addition to note is Table 42 denoting HIV infection deaths by age group and sex. 1987 is the first complete year of data for which HIV infections could be uniquely coded. Prior to late 1986, no specific code for HIV infections existed in the Ninth Revision of the International Classification of Diseases. The first portion of Table 42 indicates deaths for which the underlying cause of death was attributed to HIV infections. The second portion of the table shows deaths coded to other underlying causes of death for which HIV infection was noted as a contributing factor in the death.

B. SOURCES OF DATA

Vital Events

Birth, death, and fetal death certificates are the source documents for data on vital events of Minnesota residents filed with the Section of Vital Statistics Registration within the Minnesota Department of Health during the 1987 calendar year. A sample copy of each of these types of certificates is included in Appendix B, Figures 8-10, pages 161-169. Marriage and divorce data are compiled from statistical report forms and summary worksheets submitted to the Section of Vital Statistics Registration by each County Court Administrator.

The cut-off date for 1987 vital events data in this report was August 1, 1988. Any data pertaining to a 1987 event for which a certificate was filed after August 1, 1988 are not included in this report. It is possible that future data obtained from the MCHS may differ slightly from that which appears in this report. If this should occur, it is due to an update to the 1987 data year which was made after the August 1 deadline.

Events relating to Minnesota residents which occurred in another state are included in this report.[1] The inclusion of these data is made possible by an agreement for resident exchange of copies of certificates among all registration areas in the United States.

Birth and fetal death certificates are usually completed by hospital personnel present at the delivery. Death certificates are usually completed by hospital personnel, physicians, and funeral directors.

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[1] No marriage and divorce reports are included in the interstate exchange program for vital events. All marriage and divorce data are Minnesota occurrences.

Reported Induced Abortions

The Minnesota Abortions Surveillance is a statewide reporting system involving provider agencies throughout Minnesota. Follow-up to facilities known to perform abortion procedures has been conducted to enlist all possible sources of abortion data, yielding the present 25 data providers enrolled in the system. A "Report of Induced Abortion" form is completed by provider agency staff for each abortion performed. A sample copy of the report form is included in Appendix B, Figure 12, page 165.

Population

The methods for development of age and gender were revised in 1987 by the Minnesota Center for Health Statistics in order to produce 1985 population estimates. Population estimates for 1987 were produced using the same methodology and are included on pages 140 through 150 of this publication. The following procedures were used:

1) The most current Minnesota age/sex population estimates produced by the U.S. Bureau of the Census were obtained. (These age/sex estimates were done by the Census Bureau to fulfill contractual obligations with the National Cancer Institute.) Census Bureau data for calendar year 1984 remained the latest usable estimates. Those data are aggregated by county, sex and five-year age groups through 84 years of age.

2) The proportion of the total for each age/sex group by sex was computed. These proportions were fitted to the reported proportions of the 1980 U.S. Census. The proportions most frequently fitted to the 1980 Census involved teenage and young adult cohorts.

3) Those proportions were applied to the total county population estimates which are published annually by the Office of the State Demographer within the State Planning Agency. This resulted in revised county five-year age group and gender totals. Any rounding errors were eliminated by adjusting the 85 and over age group. The resulting county totals were thus forced to match the 1987 totals published by the Office of the State Demographer.

4) Adjustments are again made in the age/sex estimates to reconcile the 65 and over population county estimates to equal the county Medicare enrollment. Excess or shortfalls in the 65 and over age cohort are distributed proportionately among the under 65 age chorts. County totals remain identical to the State Demographer's totals.

5) Census data from 1980 were used to compute proportions of age/gender groups for selected cities within their counties of location. Those calculated proportions were applied to the 1987 revised age/gender county estimates to produce 1987 city age/gender preliminary estimates. Further refinements were then made to adjust city totals to equal total city estimates published by the Office of the State Demographer.

Occupational Injuries and Illnesses

The basic source document for the Supplementary Data System (SDS) of occupational injuries and illnesses is the "First Report of Injury" submitted by employers to the Minnesota Department of Labor and Industry, Worker's Compensation Division. A sample copy of the "First Report of Injury" is included in Appendix B, Figure 13, page 166.

The Supplementary Data System covers all employees in the state who fall within the scope of the Worker's Compensation Act. This excludes railroads in interstate commerce, most farm operations, casual employment not in the usual course of trade or business, and household workers earning less than $500 per quarter. In particular, it should be noted that small farm employers (less than 11 employees) are exempt from the OSHA act including the reporting of fatalities and multiple hospitalizations and participation in the annual occupational survey. Farm employers whose only workers are members of the employers' immediate family or are neighbors are also exempt. Any work-related illnesses or injuries which cause a loss of three or more days of work are required to be reported.

C. DATA QUALITY

Vital Events

The quality of data presented in this report is directly related to the completeness and accuracy of the information contained on the certificates. The MDH maintains two major program operations related to improving the quality of information received on certificates in order to ensure that the information is as complete and accurate as possible.

The query program is a system used to contact hospital personnel, funeral directors, and/or physicians concerning incomplete or conflicting information. The follow-up contact is usually done by telephone and is based on both manual and computer editing procedures.

The field program attempts to improve certificate information by educating participants in the vital registration system, i.e., hospital personnel, funeral directors, physicians, coroners, and medical examiners of the uses and importance of vital statistics data. The field program completes this mission by conducting seminars with various associations and makes site visits when problems with registration relating to a particular event, area or institution are discovered.

The National Center for Health Statistics (NCHS) monitors Minnesota's coding of statistical data. NCHS has established a two percent upper limit for coding differences involving any one data item, with the exception of cause of death. A five percent limit is established for this item due to the complexity of the coding process.

The Minnesota Department of Health implemented multiple cause coding on death certificates for the final quarter of 1983. All factors contributing to the death which are mentioned on the death certificate are coded using the Ninth Revision of the International Classification of Diseases (ICD-9) and underlying cause is determined through a series of special computer programs--the Automated Classification of Medical Entities (ACME).

The ACME system provides not only traditional underlying cause statistics, but also multiple cause data which may be tailored for other indepth research and analysis. Table 42 utilizes the multiple cause data in identifying cases for which HIV infection was noted as either the underlying cause of death or a contributing factor in the death.

In order to conform to the National Centers for Disease Control's changes in cause of death terminology regarding violent deaths, some changes in cause of death labels were incorporated into the 1984 death tables. Cause of death labels within Tables 38-41 and 45, which previously contained the term "accidents", were changed to "unintentional injury." This change only effects terminology as no change in actual ICD coding has occurred.

Another item to note is that all natality tables which include birth weight specific data were modified in 1983 to provide statistics for identification of live births under 2,500 grams. The tables affected are Tables 9, 10 and 36. This modification was necessary for compliance with national standards which define low birth weight as less than 2,500 grams.

The marriage dissolution report was initiated across all Minnesota counties in 1985 and contains numerous new data items. Item completeness in 1985 was poor as is often the case with new collection activity. Analysis of these data were initiated for the 1986 data year and several new tables were included in 1986 Minnesota Health Statistics. Item completeness for 1986 remained deficient with some items forty percent incomplete. This was in part due to a number of counties continuing to send lists (names, ages and dates of decree) rather than individual report forms.

Item completeness for 1987 improved due to on-site visits to several county court administrators' offices by the vital records field personnel. Some missing data on individual records was retrieved by these field representatives from individual records filed at the county level. Due to the tremendous amount of time involved in retrieving these missing data, only selected items were completed. Therefore certain data items remained thirty to forty percent incomplete, and eleven percent of total dissolutions include only data contained on the aforementioned lists.

Again, caution is advised in interpretation of the detailed dissolution tables due to missing data. The narrative preceding the dissolution tables (Tables 50 through 58, pages 117-125) briefly describes the tables and limitations of the data.

Reported Induced Abortions

The quality of data pertaining to induced abortions is dependent on the completeness and accuracy of the report forms submitted by provider facilities. A combination of computer and manual editing enables MCHS personnel to identify errors on records and take necessary corrective steps. Year-end reports are prepared for individual provider facilities to allow them to make comparisons with their own records and to report differences to MCHS. MCHS then analyzes the differences and makes necessary adjustments.

Changes have occurred in administrative record keeping by abortion providers. New records management systems have made it very difficult for some providers to match the "Report of Induced Abortion" forms to individual patient records due to lack of unique identifiers. These changes have created a greater margin for error in reporting since facilities are unable to easily locate individual records for correction of questionable reports.

In 1984 a revised reporting form was introduced. Changes were made in three data categories: contraceptive use, abortion method, and complications or failures. The changes were made in order to clarify data, simplify reporting, and reduce errors.

Prior to 1984 the "Report of Induced Abortion" form requested information on clients' reported contraceptive use. The five responses on the form were: "never used," "have used but discontinued use," "was using at conception" (method failure), "use status unknown," and "interrupted use" (intended to differentiate between human error or the choice not to contracept and method failures). Both the "interrupted use" and "method failure" response asked for further information on the type of contraception used as indicated by the client. For that reason, retrieval of data on "method failures" by type of contraception was not possible since "interrupted use" cannot be considered actual method failure.

In order to collect data on method failures only, the contraceptive use category was modified in 1984 to report use "at time of conception" only. Four responses are now offered: "unknown," "never used," "have used but not at conception," and "method use at conception" (method failure). Only the fourth response, "method failure" requires further action relative to type of contraceptive used. This restructuring of requested information clarifies the contraceptive method data reported.

In 1984, the list of contraceptive methods was also revised: oral contraceptives were categorized into combination pills and mini-pills; the sponge, cervical cap, fertility awareness, and spermicidal jelly/cream (alone) were added; and the "none" category was eliminated.

Also in 1984, response choices in the Abortion Method category were rearranged and the names of the methods updated. The "combination" response was eliminated and replaced with "other (please specify)______." These changes allow for easier correction and verification of questionable responses.

The Complications or Failures category was restructured into minor (did not require hospitalization) and major (did require hospitalization) with treatment options offered for each as a means of verifying coding intentions. The complications response choices remained unchanged, with two responses (heavy bleeding/hemorrhage and infection) listed under both "minor" and "major" complications. These changes and the differences between minor and major complications were determined with the assistance of provider agencies' staff.

Population

The 1987 population estimates used in this publication are the only known source of population data by age group, sex and county available at the time of publication of this report. In 1980, the census data were used to estimate the state population. These data were considered to be highly accurate due to various checking and follow-up procedures. The 1981 through 1987 estimates are postcensal estimates, and a modified version of the cohort-component method was used in their production. The cohort-component method is an established method of estimating population and is normally very accurate if birth, death, census and migration data are of good quality. Although these estimates are not as accurate as an actual census, they are still very useful estimators of the actual population of Minnesota. All rates in this publication have been calculated using these 1987 population estimates as a denominator.

Since the method for producing estimates was modified after the 1984 publication, age/sex estimates for some counties may show some marked changes between 1984 and 1987. Therefore, caution is advised in interpreting changes in age-specific rates, since the differences may be artifacts rather than meaningful observations.

Occupational Injuries and Illnesses

Nature of Injury or Illness, Source of Injury or Illness, Type of Accident and Part of Body Affected are coded according to ANSIZ 16.2--1962 "Method of Recording Basic Facts Relating to the Nature and Occurrence of Work Injuries." Occupations are coded using Census Bureau Codes. Industries are coded using four digit Standard Industry Classification Codes.

The quality of occupational injuries and illnesses data is related to the completeness and the accuracy of coding the "First Report of Injury." Extensive input editing by computer edit programs is performed on basic codes. Also, periodic reviews by Regional Bureau of Labor Statistics personnel are performed to audit the coding function.

D. GEOGRAPHIC ALLOCATION

Vital Events

Vital events can be classified geographically in two ways. The first way is by place of occurrence, i.e., the actual state, county and minor civil division in which the birth or death took place. The second and more customary way is by place of residence, i.e, the state, county and minor civil division stated to be the usual residence of the decedent in the case of deaths or of the mother in the case of a newborn. Fetal deaths and infant deaths, in cases where the child was never discharged from the hospital, are classified to the residence of the mother.

While occurrence statistics are accurate and have both administrative value and some statistical importance, residence statistics are the more useful tool when constructing health indices for planning and evaluation purposes. The statistics provided in this report are residence data unless otherwise stated.

Allocation of vital events by place of residence is sometimes difficult, because classification depends entirely on the statement of the usual place of residence furnished by the informant at the time the original certificate is completed. For various reasons, this statement may be incorrect or incomplete. For example, mailing addresses very often differ from the actual geographic residence.

Where the mailing address is a rural delivery number or when an unincorporated place is given as the place of residence, it is seldom possible to allocate the event to a specific township or the correct minor civil division, if this information is not supplied. How often incorrect information on residence is recorded is not known, but it is generally due to lack of information concerning the exact location of residence or misunderstanding of the question on the part of the informant.

This problem is applicable generally only to minor civil division level data. Resident counts for the state as a whole are, for all practical purposes, very accurate. County resident figures are substantially correct and can be used with a high degree of confidence.

Each of Minnesota's 87 counties is classified into one of eight health districts. Some data presented in this report are aggregated by MDH health district. Appendix C is a map showing the county distribution of the health districts in Minnesota.

Reported Induced Abortions

Data on induced abortions are collected and coded to the county and minor civil division of residence of the recipient. The quality of geographic allocation is highly suspect due to total dependence on the patient responses at the time of the procedure.

This report does not include county level tables due to the chance of inadvertent disclosure of individual identity. However, a map illustrating county totals in ranges is included as Figure 7, page 67.

Population

The 1987 population estimates by age group and sex are available at the state and county level, as well as estimates for Minneapolis, St. Paul and Duluth. Estimates of the 1987 population of every city and township outside the seven-county Twin Cities Metropolitan Area were created by the Office of the State Demographer. These estimates, however, are not broken down by age group or sex. Estimates of the population of cities and townships inside the seven-county Twin Cities Metropolitan Area were created by the Metropolitan Council.

E. DEFINITIONS OF RATES

Absolute counts of health-related events do not readily lend themselves to analysis and comparison between years and between various geographic areas because of population differences and the small number of reported events. These demographic differences include total number, age and sex distributions, and ethnic or racial differentials. In order to assess the health status of a particular population at a specified time, the absolute number of events is converted to a relative number such as a probability of living or dying, a rate, a ratio, or an index. This conversion is made by relating the crude number of events to the living population at risk in a particular area at a specified time.

The following types of rates are used in this report:

ABORTION RATE: The number of induced abortions per 1,000 females in the population of age 15 through 44 years.

AGE/CAUSE SPECIFIC DEATH RATE: Number of deaths from a specified cause within a specified age group per 100,000 population in the same age group.

AGE/SEX ADJUSTED DEATH RATE: Total rates for counties and cities are adjusted for age and sex on the basis of the state population.

AGE-SPECIFIC PREGNANCY RATE: Number of live births plus fetal deaths plus induced abortions to women in a specified age group per 1,000 females in the population comprising the same specified age group.

CRUDE BIRTH RATE: Number of live births per 1,000 population.

CRUDE DEATH RATE: Number of deaths per 1,000 population.

FERTILITY RATE: Total number of live births per 1,000 females in the population of age 15 through 44 years.

INFANT DEATH RATE: Deaths under one year of age per 1,000 live births.

NEONATAL DEATH RATE: Number of infants dying under 28 days of age per 1,000 live births.

OCCUPATIONAL INJURY AND ILLNESS RATE: Number of reported injuries or illnesses in a given industrial category per 1,000 workers in the same industrial category. The state rate is calculated excluding agricultural industry categories.

PERINATAL DEATH RATE: Number of fetal deaths of 20 weeks or more gestation plus the number of neonatal deaths (deaths to infants under 28 days of age) per 1,000 live births.

PREGNANCY RATE: Number of live births plus the number of fetal deaths plus the number of induced abortions per 1,000 females in the population of age 15 through 44 years.

SEX ADJUSTED-AGE SPECIFIC DEATH RATE: Specific age group rates for counties and cities have been adjusted for sex on the basis of the state population for the specific age group.

Overview of 1987 Vital Statistics

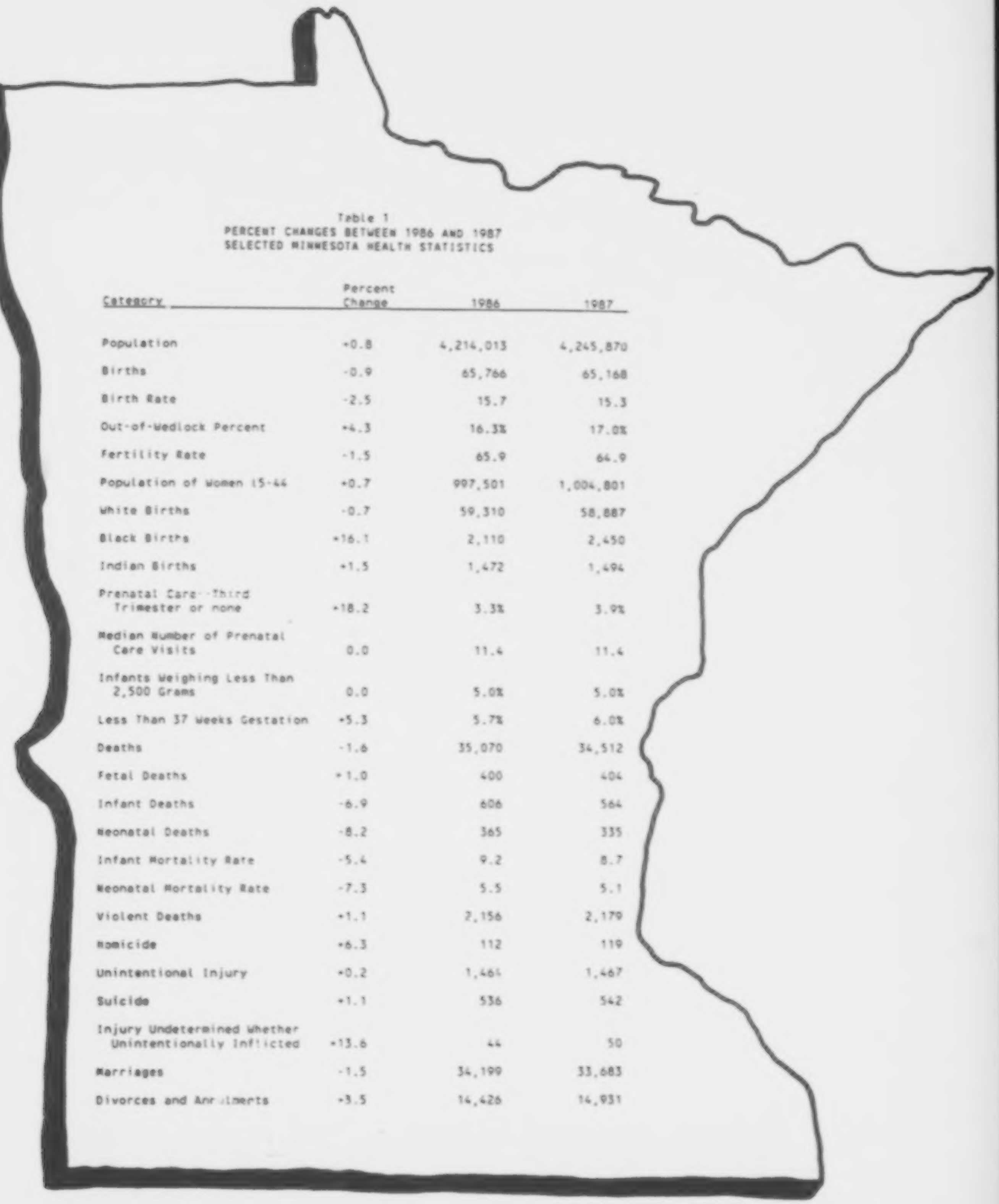

Table 1
PERCENT CHANGES BETWEEN 1986 AND 1987
SELECTED MINNESOTA HEALTH STATISTICS

Category	Percent Change	1986	1987
Population	+0.8	4,214,013	4,245,870
Births	-0.9	65,766	65,168
Birth Rate	-2.5	15.7	15.3
Out-of-Wedlock Percent	+4.3	16.3%	17.0%
Fertility Rate	-1.5	65.9	64.9
Population of Women 15-44	+0.7	997,501	1,004,801
White Births	-0.7	59,310	58,887
Black Births	+16.1	2,110	2,450
Indian Births	+1.5	1,472	1,494
Prenatal Care--Third Trimester or none	+18.2	3.3%	3.9%
Median Number of Prenatal Care Visits	0.0	11.4	11.4
Infants Weighing Less Than 2,500 Grams	0.0	5.0%	5.0%
Less Than 37 Weeks Gestation	+5.3	5.7%	6.0%
Deaths	-1.6	35,070	34,512
Fetal Deaths	+1.0	400	404
Infant Deaths	-6.9	606	564
Neonatal Deaths	-8.2	365	335
Infant Mortality Rate	-5.4	9.2	8.7
Neonatal Mortality Rate	-7.3	5.5	5.1
Violent Deaths	+1.1	2,156	2,179
Homicide	+6.3	112	119
Unintentional Injury	+0.2	1,464	1,467
Suicide	+1.1	536	542
Injury Undetermined Whether Unintentionally Inflicted	+13.6	44	50
Marriages	-1.5	34,199	33,683
Divorces and Annulments	+3.5	14,426	14,931

Table 2
RESIDENT LIVE BIRTHS, CRUDE BIRTH RATES*, AND FERTILITY RATES**, MINNESOTA AND UNITED STATES, 1940, 1945, 1950, 1955, 1960, 1965-1987

Year	Live Births		Crude Birth Rate*		Fertility Rate**	
	Minnesota	United States	Minnesota	United States	Minnesota	United States
1940	52,915	2,559,000	19.0	19.4	81.0	79.9
1945	54,656	2,858,000	20.9	20.4	85.1	85.9
1950	75,078	3,632,000	25.2	24.1	119.1	106.2
1955	81,532	4,097,000	25.7	25.0	130.1	118.3
1960	87,523	4,257,850	25.6	23.7	136.0	118.0
1965	70,810	3,760,358	19.7	19.4	105.9	96.3
1966	66,781	3,606,274	18.5	18.4	96.0	90.8
1967	64,532	3,520,959	17.6	17.8	96.8	87.2
1968	64,759	3,501,564	17.5	17.6	93.2	85.2
1969	65,961	3,600,206	17.6	17.9	90.5	86.1
1970	68,449	3,731,386	18.0	18.4	88.4	87.9
1971	62,498	3,555,970	16.2	17.2	78.2	81.6
1972	56,395	3,258,411	14.5	15.6	69.6	73.1
1973	53,783	3,136,965	13.8	14.8	65.4	68.8
1974	55,753	3,159,958	14.2	14.8	66.0	67.8
1975	56,463	3,144,198	14.4	14.6	65.4	66.0
1976	56,599	3,167,788	14.3	14.6	63.8	65.0
1977	60,284	3,326,632	15.2	15.1	66.8	66.8
1978	61,997	3,333,279	15.5	15.0	67.1	65.5
1979	65,325	3,494,398	16.1	15.6	69.0	67.2
1980	67,843	3,612,258	16.6	15.9	70.8	68.4
1981	68,652	3,629,238	16.7	15.8	71.0	67.4
1982	68,512	3,680,537	16.6	15.9	70.1	67.3
1983	65,559	3,638,933	15.8	15.5	66.8	65.8
1984	66,715	3,669,141	16.0	15.5	67.9	65.4
1985	67,412	3,760,561	16.1	15.8	68.0	66.2
1986	65,766	3,756,547	15.7	15.6	65.9	65.4
1987	65,168	3,829,000***	15.3	15.7***	64.9	66.1***

* Live Births per 1,000 Population
** Live Births per 1,000 Female Population of Ages 15-44
*** Provisional data

Table 3
NUMBERS AND RATES OF RESIDENT LIVE BIRTHS, DEATHS, AND MATERNAL DEATHS
MINNESOTA AND UNITED STATES,
1940, 1945, 1950, 1955, 1960, 1965-1987

	Live Births				Deaths				Maternal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
Year	Number	Rate*	Number	Rate*	Number	Rate**	Number	Rate**	Number	Rate***	Number	Rate***
1940	52,915	19.0	2,559,000	19.4	26,354	9.4	1,417,269	10.8	15	217.3	8,876	376.0
1945	54,656	20.9	2,858,000	20.4	26,763	10.2	1,401,719	10.6	75	137.2	5,668	207.2
1950	75,078	25.2	3,632,000	24.1	27,897	9.4	1,452,454	9.6	43	57.3	2,960	83.3
1955	81,532	25.7	4,097,000	25.0	28,574	9.0	1,528,717	9.3	27	33.1	1,901	47.0
1960	87,523	25.6	4,257,850	23.7	31,596	9.3	1,711,982	9.5	13	14.9	1,579	37.1
1965	70,810	19.7	3,760,358	19.4	32,477	9.0	1,828,136	9.4	12	16.8	1,189	31.6
1966	66,781	18.5	3,606,274	18.4	33,222	9.2	1,863,149	9.5	12	18.0	1,049	29.1
1967	64,532	17.6	3,520,959	17.8	32,917	9.0	1,851,323	9.4	6	9.3	987	28.0
1968	64,759	17.5	3,501,564	17.6	33,890	9.2	1,930,082	9.7	5	7.7	859	24.5
1969	65,961	17.6	3,600,206	17.9	33,791	9.0	1,921,990	9.5	11	16.7	801	22.2
1970	68,449	18.0	3,731,386	18.4	33,919	8.9	1,921,031	9.5	9	13.1	803	21.5
1971	62,498	16.2	3,555,970	17.2	33,871	8.8	1,927,542	9.3	14	22.4	668	18.8
1972	56,395	14.5	3,258,411	15.6	34,565	8.9	1,963,944	9.4	4	7.1	612	18.8
1973	53,783	13.8	3,136,965	14.8	33,899	8.7	1,973,003	9.3	4	7.4	477	15.2
1974	55,753	14.2	3,159,958	14.8	33,501	8.6	1,934,388	9.1	4	7.2	462	14.6
1975	56,463	14.4	3,144,198	14.6	32,686	8.3	1,892,879	8.8	3	5.3	403	12.8
1976	56,599	14.3	3,167,788	14.6	32,798	8.3	1,909,440	8.8	2	3.5	390	12.3
1977	60,284	15.2	3,326,632	15.1	32,281	8.1	1,899,597	8.6	4	6.6	373	11.2
1978	61,997	15.5	3,333,279	15.0	33,312	8.3	1,927,788	8.7	6	9.7	321	9.6
1979	65,325	16.1	3,494,398	15.6	32,082	7.9	1,913,841	8.5	3	4.6	336	9.6
1980	67,843	16.6	3,612,258	15.9	33,415	8.2	1,989,841	8.8	4	5.9	334	9.2
1981	68,652	16.7	3,629,238	15.8	32,815	8.0	1,977,981	8.6	2	2.9	309	8.5
1982	68,512	16.6	3,680,537	15.9	32,976	8.0	1,974,797	8.5	3	4.4	292	7.9
1983	65,559	15.8	3,638,933	15.5	33,902	8.2	2,019,201	8.6	2	3.1	290	8.0
1984	66,715	16.0	3,669,141	15.5	33,746	8.1	2,039,369	8.6	5	7.5	285	7.8
1985	67,412	16.1	3,760,561	15.8	34,793	8.3	2,086,440	8.7	3	4.5	295	7.8
1986	65,766	15.7	3,756,547◆	15.6◆	35,070	8.3	2,105,361◆	8.7◆	1	1.5	272◆	7.2◆
1987	65,168	15.3	3,829,000◆	15.7◆	34,512	8.1	2,127,000◆	8.7◆	1	1.5	240◆	6.3◆

* Live Births per 1,000 Population
** Deaths per 1,000 Population
*** Maternal Deaths per 100,000 Live Births
◆ Provisional Data

Table 4
NUMBERS AND RATES OF INFANT DEATHS, NEONATAL DEATHS, AND FETAL DEATHS
MINNESOTA AND UNITED STATES,
1940, 1945, 1950, 1955, 1960, 1965-1987

	Infant Deaths				Neonatal Deaths				Fetal Deaths			
	Minnesota		United States		Minnesota		United States		Minnesota		United States	
Year	Number	Rate*	Number	Rate*	Number	Rate**	Number	Rate**	Number	Rate***	Number	Rate***
1940	1,772	33.3	110,984	47.0	1,246+	23.4	67,866	28.8	1,144+	21.5	73,802	31.3
1945	1,698	31.1	104,684	38.3	1,226+	22.6	66,593	24.3	1,141	20.9	65,513	23.9
1950	1,876	25.0	103,825	29.2	1,430	19.0	72,855	20.5	1,208	16.1	68,262	19.2
1955	1,779	21.8	106,903	26.4	1,386	17.0	77,351	19.1	1,173	14.4	69,153	17.1
1960	1,881	21.5	110,873	26.0	1,397	16.0	79,733	18.7	1,058	12.1	68,480	16.1
1965	1,432	20.2	92,866	24.7	1,075	15.2	66,419	17.7	921	13.0	60,859	16.2
1966	1,299	19.5	85,516	23.7	987	14.8	61,941	17.2	819	12.3	56,637	15.7
1967	1,288	20.0	79,028	22.4	980	15.2	58,127	16.5	712	11.0	14,934	15.6
1968	1,192	18.4	76,263	21.8	894	13.8	56,456	16.1	740	11.4	55,293	15.8
1969	1,110	16.8	75,073	20.9	876	13.3	56,085	15.6	681	10.3	50,749	14.1
1970	1,203	17.6	74,667	20.0	944	13.8	56,279	15.1	705	10.3	52,961	14.2
1971	1,081	17.3	67,981	19.1	829	13.3	50,496	14.2	594	9.5	47,818	13.4
1972	946	16.8	60,182	18.5	704	12.5	44,432	13.6	533	9.5	41,380	12.7
1973	831	15.5	55,581	17.7	630	11.7	40,664	13.0	481	8.9	38,309	12.2
1974	809	14.5	52,776	16.7	598	10.7	38,738	12.3	523	9.4	36,281	11.5
1975	771	13.7	50,525	16.1	582	10.3	36,416	11.6	479	8.5	33,796	10.7
1976	789	13.9	48,265	15.2	565	10.9	34,587	10.9	487	8.6	33,111	10.5
1977	664	11.0	46,975	14.1	478	7.9	32,860	9.9	471	7.8	33,053	9.9
1978	739	11.9	45,945	13.8	513	8.3	31,618	9.5	468	7.6	32,301	9.7
1979	700	10.7	45,665	13.1	469	7.2	30,980	8.9	445	6.8	32,969	9.4
1980	679	10.0	45,526	12.6	421	6.2	30,618	8.5	449	6.6	33,353	9.2
1981	701	10.2	43,305	11.9	448	6.5	29,121	8.0	461	6.7	32,596	9.0
1982	645	9.4	42,401	11.5	402	5.9	28,335	7.7	429	6.3	NA	NA
1983	645	9.8	40,627	11.2	410	6.3	26,507	7.3	457	7.0	NA	NA
1984	590	8.8	39,580	10.8	362	5.4	25,691	7.0	465	7.0	NA	NA
1985	591	8.8	40,030	10.6	364	5.4	26,179	7.0	439	6.5	NA	NA
1986	606	9.2	38,891@	10.4@	365	5.5	25,212@	6.7@	400	6.1	NA	NA
1987	564	8.7	38,000@	10.0@	335	5.1	24,940@	6.5@	404	6.2	NA	NA

* Infant Deaths per 1,000 Live Births
** Neonatal Deaths per 1,000 Live Births
*** Fetal Deaths per 1,000 Live Births
+ Place of Occurrence
@ Provisional Data

Table 5
MARRIAGES AND DIVORCES AND ANNULMENTS, NUMBERS AND RATES*
MINNESOTA AND UNITED STATES, 1940, 1945, 1950, 1955, 1960, 1965-1987

	Marriages				Divorces			
	Minnesota		United States		Minnesota		United States	
	#	Rate*	#	Rate*	#	Rate**	#	Rate**
1940	27,419	9.8	1,595,879	12.1	2,957	1.1	264,000	2.0
1945	26,195	10.0	1,612,992	12.2	5,326	2.0	485,000	3.5
1950	30,991	10.4	1,667,231	11.1	4,049	1.4	385,000	2.6
1955	24,854	7.8	1,531,000	9.3	3,757	1.2	377,000	2.3
1960	23,596	6.9	1,523,000	8.5	4,175	1.2	393,000	2.2
1965	26,472	7.4	1,800,000	9.3	4,848	1.3	479,000	2.5
1966	26,566	7.3	1,857,000	9.5	5,457	1.5	499,000	2.5
1967	28,163	7.7	1,927,000	9.7	6,148	1.7	523,000	2.6
1968	30,671	8.3	2,069,000	10.4	6,646	1.8	584,000	2.9
1969	31.971	8.5	2,145,000	10.6	7,496	2.0	639,000	3.2
1970	31,280	8.2	2,158,802	10.6	8,221	2.2	708,000	3.5
1971	31,196	8.1	2,190,481	10.6	9,494	2.5	773,000	3.7
1972	32,227	8.3	2,282,154	10.9	10,214	2.6	845,000	4.0
1973	32,996	8.5	2,284,108	10.8	11,113	2.9	915,000	4.3
1974	33,547	8.6	2,229,667	10.5	12,204	3.1	977,000	4.6
1975	32,237	8.2	2,152,662	10.0	13,147	3.3	1,036,000	4.8
1976	32,027	8.1	2,154,807	9.9	13,764	3.5	1,083,000	5.0
1977	33,040	8.3	2,178,367	9.9	13,852	3.5	1,091,000	5.0
1978	33,480	8.4	2,282,272	10.3	14,183	3.5	1,130,000	5.1
1979	37,020	9.1	2,331,337	10.4	14,542	3.6	1,181,000	5.3
1980	37,625	9.2	2,390,252	10.6	15,092	3.7	1,189,000	5.2
1981	37,638	9.2	2,422,145	10.6	16,329	4.0	1,213,000	5.3
1982	37,409	9.1	2,456,278	10.6	15,177	3.7	1,170,000	5.0
1983	36,259	8.7	2,445,604	10.5	14,789	3.6	1,158,000	4.9
1984	36,223	8.7	2,477,192	10.5	14,758	3.5	1,169,000	5.0
1985	35,059	8.4	2,412,625	10.1	14,795	3.5	1,190,000	5.0
1986	34,199	8.1	2,400,000***	10.0***	14,426	3.4	1,159,000***	4.8***
1987	33,683	7.9	2,421,000***	9.9***	14,931	3.5	1,157,000***	4.8***

* Marriages per 1,000 Population
** Divorces and Annulments per 1,000 Population
*** Provisional Data

Table 6
BIRTHS, DEATHS, INFANT DEATHS, FETAL DEATHS, MARRIAGES, DIVORCES AND ANNULMENTS BY MONTH
MINNESOTA OCCURRENCES, 1987

	Births	Deaths	Infant Deaths	Fetal Deaths	Marriages	Divorces and Annulments
Total	64,984	34,813	587	407	33,683	14,931
January	5,015	3,146	58	24	1,028	1,066
February	4,803	2,766	46	34	1,818	931
March	5,641	2,919	59	26	1,303	1,230
April	5,597	2,879	49	37	1,954	1,325
May	5,705	2,893	55	24	3,846	1,351
June	5,743	2,790	44	42	4,516	1,323
July	5,800	2,802	45	38	3,022	1,357
August	5,520	2,721	37	43	4,770	1,173
September	5,594	2,764	42	45	3,964	1,261
October	5,289	3,137	36	27	3,450	1,291
November	5,029	2,869	65	27	2,016	1,201
December	5,248	3,127	51	40	1,996	1,422

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1987

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Afton	31	-	12	-	-
Albert Lea	240	1	218	3	3
Alexandria	105	1	172	3	1
Andover	210	2	19	1	1
Anoka	370	4	126	7	4
Apple Valley	511	-	71	2	1
Arden Hills	125	1	89	-	-
Aurora	17	-	34	-	-
Austin	271	1	244	2	-
Baxter	39	-	11	-	-
Bayport	14	-	21	-	-
Belle Plaine	51	1	29	-	-
Bemidji	168	2	135	1	-
Benson	42	-	50	-	-
Blaine	639	4	84	1	1
Bloomington	1,071	7	510	11	9
Blue Earth	54	-	61	1	1
Brainerd	279	3	173	5	3
Breckenridge	62	1	51	-	-
Brooklyn Center	410	3	193	3	2
Brooklyn Park	1,041	5	132	11	5
Buffalo	148	1	80	-	-
Burnsville	828	1	130	7	6
Caledonia	40	-	41	-	-
Cambridge	67	1	89	-	-
Cannon Falls	51	2	47	2	2
Champlin	361	2	37	1	1
Chanhassen	158	1	22	1	1
Chaska	217	-	50	1	1
Chisholm	50	-	58	1	-
Circle Pines	214	-	26	-	-
Cloquet	170	1	122	2	1
Columbia Heights	299	1	155	3	-
Coon Rapids	907	5	164	8	6
Corcoran	75	1	18	-	-
Cottage Grove	309	2	51	3	3
Crookston	134	1	111	3	1
Crystal	382	-	164	5	3
Dayton	50	-	14	2	2
Deephaven	43	-	17	1	1
Detroit Lakes	95	1	135	3	1
Dilworth	42	-	13	-	-
Duluth	1,172	5	1,060	23	15
Eagan	876	2	60	6	4
East Bethel	79	1	17	-	-
East Grand Forks	171	5	87	5	2
Eden Prairie	712	1	74	3	1
Edina	454	3	428	3	3
Elk River	159	1	61	2	2
Ely	39	-	100	-	-

Table 7

LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1987 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Eveleth	59	2	78	-	-
Excelsior	69	-	35	-	-
Fairmont	140	1	129	1	-
Falcon Heights	84	3	29	-	-
Faribault	281	1	210	1	1
Farmington	147	2	56	2	1
Fergus Falls	157	1	152	-	-
Forest Lake	135	1	90	3	1
Fridley	375	2	154	2	1
Gilbert	24	1	32	-	-
Glencoe	59	-	57	2	-
Glenwood	44	1	62	-	-
Golden Valley	249	1	212	3	3
Goodview	7	-	10	-	-
Grand Rapids	103	1	101	1	1
Granite Falls	37	-	39	-	-
Ham Lake	130	1	19	-	-
Hastings	263	5	108	3	1
Hermantown	16	-	18	-	-
Hibbing	194	4	212	2	-
Hopkins	223	1	202	1	-
Hoyt Lakes	19	-	12	-	-
Hugo	66	1	19	-	-
Hutchinson	174	-	98	3	1
Independence	17	-	11	-	-
International Falls	89	1	83	-	-
Inver Grove Heights	401	1	87	1	1
Jackson	51	-	49	1	1
Jordan	67	-	19	1	-
Kasson	68	-	22	-	-
La Crescent	68	1	38	-	-
Lake City	52	-	47	-	-
Lake Elmo	90	1	15	-	-
Lakeville	352	1	39	1	1
Le Sueur	58	-	56	1	1
Lino Lakes	144	-	17	-	-
Litchfield	95	-	90	2	2
Little Canada	136	1	41	-	-
Little Falls	140	1	146	-	-
Long Prairie	24	-	43	1	1
Luverne	45	-	52	-	-
Mahtomedi	87	-	19	2	1
Mankato	408	4	211	5	4
Maple Grove	667	1	58	4	2
Maplewood	433	2	241	3	-
Marshall	193	2	79	-	-
Medina	28	-	7	1	-
Mendota Heights	107	-	45	1	1
Minneapolis	6,374	57	3,930	81	44
Minnetonka	554	2	220	5	4

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1987 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Minnetrista	28	1	5	-	-
Montevideo	88	-	80	1	1
Monticello	163	2	35	1	-
Moorhead	408	2	220	5	2
Mora	41	1	50	-	-
Morris	68	-	72	-	-
Mound	189	-	46	-	-
Mounds View	217	1	39	1	1
Mountain Iron	32	1	27	2	-
New Brighton	251	-	126	1	1
New Hope	284	3	272	3	2
New Prague	66	-	54	-	-
New Ulm	193	-	169	2	2
Newport	85	-	20	2	-
North Mankato	179	-	32	-	-
North Oaks	25	1	17	3	3
North St. Paul	187	1	82	1	1
Northfield	174	-	111	6	5
Oak Park Heights	9	-	13	-	-
Oakdale	281	-	60	2	2
Olivia	37	1	38	-	-
Orono	38	-	18	-	-
Ortonville	22	1	47	1	1
Osseo	62	1	46	1	1
Owatonna	276	2	167	2	2
Park Rapids	52	-	93	1	-
Pipestone	57	1	76	-	-
Plymouth	705	1	118	3	2
Princeton	56	3	54	1	1
Prior Lake	238	-	44	-	-
Proctor	36	-	41	-	-
Ramsey	129	1	26	-	-
Red Wing	197	1	177	1	-
Redwood Falls	68	-	52	1	-
Richfield	508	6	300	2	2
Robbinsdale	221	2	148	3	3
Rochester	1,287	7	508	17	13
Rosemount	174	1	28	1	1
Roseville	351	3	281	1	-
Saint Anthony	79	-	75	1	-
Saint Cloud	717	4	292	4	2
Saint James	48	-	79	-	-
Saint Joseph	43	1	11	-	-
Saint Louis Park	596	6	436	6	3
Saint Paul	4,942	35	2,723	47	25
Saint Paul Park	86	-	23	-	-
Saint Peter	99	-	93	-	-
Sartell	88	1	58	4	3
Sauk Centre	57	-	33	-	-
Sauk Rapids	145	3	73	-	-

Table 7
LIVE BIRTHS, FETAL DEATHS, DEATHS, INFANT DEATHS, AND NEONATAL DEATHS BY URBAN AREA OF RESIDENCE, MINNESOTA, 1987 (CONT.)

Urban Area*	Live Births	Fetal Deaths	Deaths	Infant Deaths	Neonatal Deaths
Savage	232	-	14	3	2
Shakopee	214	-	81	3	3
Shoreview	403	3	60	1	1
Shorewood	47	-	17	1	1
Silver Bay	12	-	13	-	-
Sleepy Eye	535	-	47	-	-
South International Falls	23	-	18	-	-
South St. Paul	314	1	166	3	3
Spring Lake Park	120	1	31	3	2
Spring Valley	32	1	40	1	1
Staples	51	-	65	1	1
Stewartville	110	-	43	1	-
Stillwater	254	1	153	2	-
Thief River Falls	103	-	105	1	1
Two Harbors	47	1	89	-	-
Vadnais Heights	213	-	20	-	-
Virginia	102	-	156	2	2
Waconia	67	-	57	1	1
Wadena	56	-	62	-	-
Waite Park	85	-	33	-	-
Waseca	113	1	74	-	-
Wayzata	106	2	49	2	1
Wells	43	1	45	-	-
West St. Paul	239	1	200	4	1
White Bear Lake	471	2	162	2	-
Willmar	263	3	161	3	1
Windom	70	-	56	-	-
Winona	310	3	275	1	1
Woodbury	279	3	91	4	3
Worthington	132	-	103	-	-

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* Municipalities with population of 2,500 or more as of the 1980 Census.

Live Births

Every day in 1987, residents of Minnesota experienced an average of:

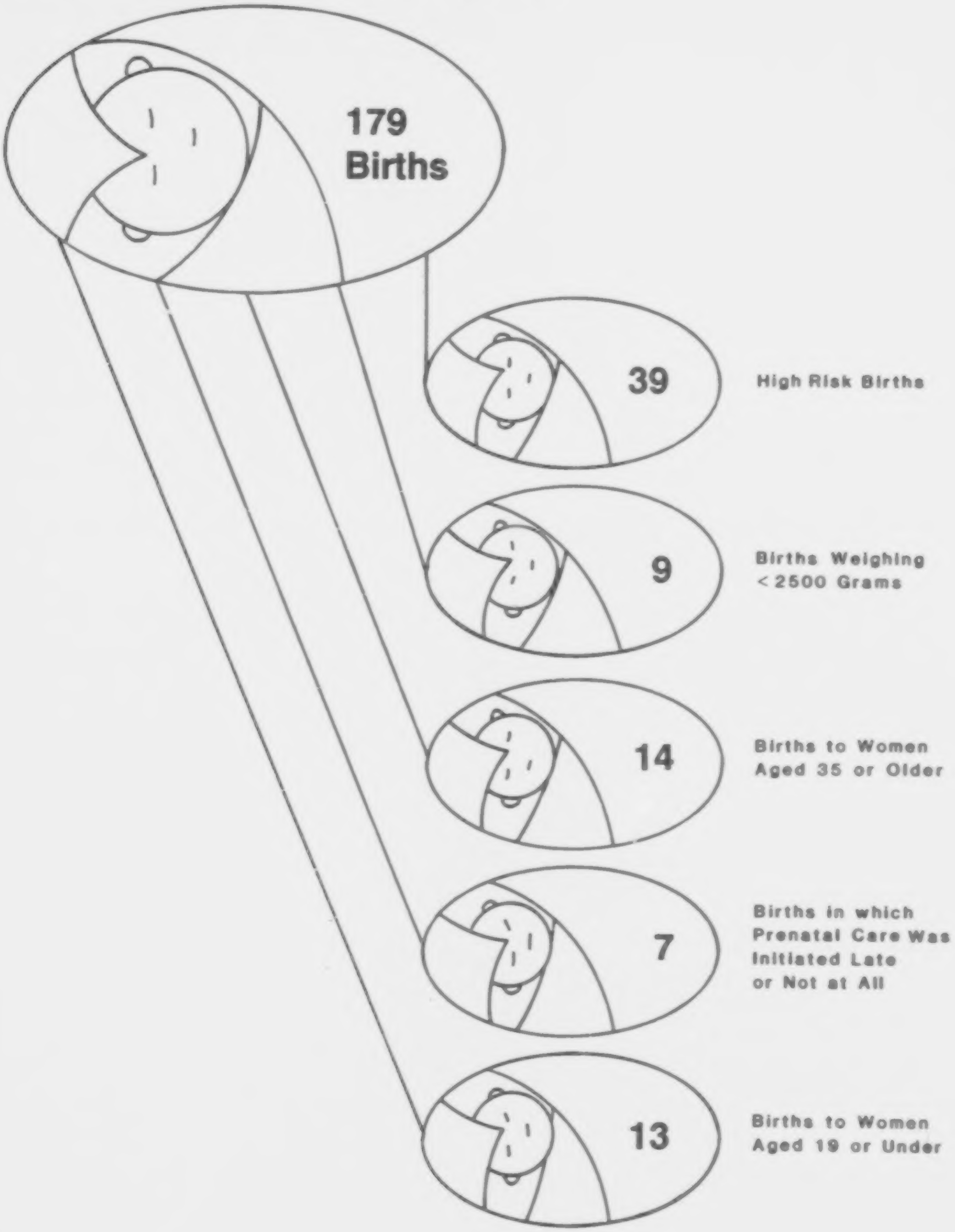

Table 8
LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1987

	Births Occurring in County				Resident Births		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	64,984	44,870	18,259	1,855	18,259	2,039	65,168
Aitkin	71	63	8	-	91	2	156
Anoka	3,911	2,441	1,466	4	1,521	1	3,963
Becker	384	293	89	2	67	62	422
Beltrami	837	539	297	1	23	2	564
Benton	1	1	-	-	483	1	485
Big Stone	126	62	20	44	15	6	83
Blue Earth	1,137	675	458	4	39	2	716
Brown	560	369	191	-	41	1	411
Carlton	238	165	73	-	232	-	397
Carver	735	292	443	-	447	1	740
Cass	3	3	-	-	290	7	300
Chippewa	180	108	66	6	67	1	176
Chisago	278	192	80	6	223	39	454
Clay	54	43	5	6	6	588	637
Clearwater	47	40	7	-	77	1	118
Cook	28	28	-	-	16	-	44
Cottonwood	151	128	22	1	41	7	176
Crow Wing	758	574	184	-	44	1	619
Dakota	2,543	1,962	525	56	2,457	4	4,423
Dodge	-	-	-	-	268	-	268
Douglas	486	348	138	-	34	1	383
Faribault	152	129	11	12	112	1	242
Fillmore	34	31	2	1	173	85	289
Freeborn	498	374	77	47	49	3	426
Goodhue	544	361	55	128	198	3	562
Grant	25	21	3	1	48	2	71
Hennepin	19,599	14,387	5,095	117	1,488	35	15,910
Minneapolis	10,860	4,591	6,170	99	1,768	15	6,374
Houston	13	10	-	3	3	279	292
Hubbard	213	116	96	1	78	8	202
Isanti	437	212	223	2	151	-	363
Itasca	465	407	57	1	94	4	505
Jackson	61	55	6	-	82	13	150
Kanabec	206	102	104	-	78	-	180
Kandiyohi	789	515	274	-	36	2	553
Kittson	82	55	25	2	8	19	82
Koochiching	142	137	4	1	26	7	170
Lac Qui Parle	66	61	3	2	48	3	112
Lake	68	53	15	-	48	1	102
Lake of the Woods	50	43	6	1	13	5	61
Le Sueur	59	43	16	-	290	-	333
Lincoln	96	52	24	20	18	10	80
Lyon	422	342	79	1	48	17	407
McLeod	497	334	163	-	119	2	455
Mahnomen	35	25	10	-	40	11	76
Marshall	30	26	4	-	61	58	145
Martin	352	270	36	46	24	2	296
Meeker	131	104	27	-	201	-	305
Mille Lacs	347	197	150	-	60	-	257
Morrison	432	379	52	1	130	2	511
Mower	467	381	72	14	104	5	490

Table 8

LIVE BIRTHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE, RESIDENT LIVE BIRTHS DISTRIBUTED ACCORDING TO PLACE OF BIRTH, MINNESOTA, 1987 (CONT.)

	Births Occurring in County				Resident Births		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Murray	49	47	2	-	74	7	128
Nicollet	113	68	45	-	337	-	405
Nobles	408	224	142	42	34	38	296
Norman	17	15	-	2	14	58	87
Olmsted	2,674	1,766	855	53	13	4	1,783
Otter Tail	536	470	65	1	123	64	657
Pennington	281	155	126	-	6	12	173
Pine	29	29	-	-	255	7	291
Pipestone	104	81	18	5	21	25	127
Polk	240	190	48	2	36	256	482
Pope	101	78	23	-	53	-	131
Ramsey	9,724	6,085	3,402	237	1,834	16	7,935
St. Paul	8,156	3,775	4,166	215	1,159	8	4,942
Red Lake	1	1	-	-	69	6	76
Redwood	208	164	44	-	124	1	289
Renville	124	105	12	7	167	-	272
Rice	585	481	103	1	156	1	638
Rock	143	85	50	8	3	27	115
Roseau	227	203	13	11	32	11	246
St. Louis	3,101	2,303	399	399	49	15	2,367
Duluth	2,253	1,149	705	399	14	9	1,172
Scott	950	484	465	1	514	1	999
Sherburne	2	2	-	-	546	-	548
Sibley	65	63	2	-	147	-	210
Stearns	2,524	1,627	895	2	140	5	1,772
Steele	383	324	59	-	116	1	441
Stevens	137	112	25	-	25	3	140
Swift	85	72	10	3	61	-	133
Todd	182	129	53	-	203	4	336
Traverse	55	24	13	18	11	8	43
Wabasha	199	127	25	47	137	3	267
Wadena	344	171	172	1	45	1	217
Waseca	172	134	38	-	113	-	247
Washington	656	346	147	163	1,619	10	1,975
Watonwan	119	100	19	-	44	-	144
Wilkin	342	82	9	251	8	18	108
Winona	502	399	38	65	82	129	610
Wright	601	479	122	-	682	2	1,163
Yellow Medicine	161	97	59	5	56	2	155
Unknown	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1987

	State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
Live Births	65,168	156	3,963	422	564	485	83	716
Fertility Rate	64.9	66.4	66.3	68.6	72.5	71.3	65.9	51.5
Birth Rate	15.3	11.7	17.7	13.5	16.6	17.4	11.0	13.6
Sex: Male	33,593	86	2,004	220	293	238	46	376
Female	31,574	70	1,959	202	271	247	37	340
Out-of-Wedlock, percent	17.0	29.5	13.7	24.6	38.1	11.8	13.3	16.2
Race: White	58,887	147	3,563	348	368	481	81	701
Black	2,450	-	25	-	4	2	-	3
Indian	1,494	9	40	74	189	2	2	4
Live Birth Order								
Median	2.3	2.4	2.3	2.6	2.5	2.4	2.4	2.4
% 5th or over	3.8	4.5	1.7	6.2	6.7	3.7	3.6	2.7
Prematurity, Percent								
Less than 37 weeks	6.0	7.1	3.9	7.3	10.1	5.6	4.8	6.7
Less than 2,500 grams	5.0	5.8	4.9	6.2	5.0	3.7	2.4	4.1
Plurality:								
Single	63,681	152	3,871	406	553	469	79	700
Twin	1,459	4	92	16	11	16	4	16
Triplet	24	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.4	3.8	2.2	3.1	5.1	1.2	3.6	2.4
18-19	5.0	8.3	4.4	8.5	9.0	3.3	3.6	4.7
40 and over	.9	.6	.7	1.9	.5	.6	1.2	1.1
Mother's Education, Percent								
Less than 12 years	9.5	18.6	7.0	16.6	19.3	5.8	12.0	9.2
Over 3 years college	20.5	6.4	12.7	9.0	13.5	16.3	9.6	21.2
Prenatal Care Began, Percent								
3rd Trimester or none	3.9	5.1	2.8	4.7	7.6	1.2	8.4	1.7
Prenatal Care Visits								
Median	11.4	10.6	10.9	10.8	10.1	12.1	10.3	12.7
Congenital Anomalies, Percent	1.3	.6	1.0	.9	1.2	.4	2.4	.8
High Risk, Percent	21.7	26.3	18.7	26.1	28.4	19.0	21.7	17.0
Other Significant Conditions of Child, Percent	4.8	7.1	3.3	5.9	5.5	4.5	3.6	2.9
Infant Deaths								
Total	564	2	33	5	2	2	1	5
White	489	2	31	3	2	2	1	5
Black	43	-	-	-	-	-	-	-
Indian	19	-	1	2	-	-	-	-
Neonatal Deaths								
Total	335	1	17	2	1	-	1	4
White	291	1	17	1	1	-	1	4
Black	29	-	-	-	-	-	-	-
Indian	10	-	-	1	-	-	-	-
First Day Deaths								
Total	188	-	10	2	1	-	1	3
White	163	-	10	1	1	-	1	3
Black	16	-	-	-	-	-	-	-
Indian	6	-	-	1	-	-	-	-
1-6 Day Deaths								
Total	74	1	6	-	-	-	-	1
White	62	1	6	-	-	-	-	1
Black	8	-	-	-	-	-	-	-
Indian	4	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	73	-	1	-	-	-	-	-
White	66	-	1	-	-	-	-	-
Black	5	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	404	3	24	4	8	3	1	5
White	319	1	22	1	7	1	1	5
Black	27	-	-	-	-	-	-	-
Indian	22	2	-	3	1	-	-	-
Perinatal Rate	11.3	25.6	10.3	14.2	16.0	6.2	24.1	12.6
Maternal Deaths	1	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1987 (CONT.)

	Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clear-water
Live Births	411	397	740	300	176	454	637	118
Fertility Rate	66.4	68.8	70.0	84.8	66.8	74.0	50.1	73.6
Birth Rate	14.7	14.0	17.2	14.2	12.2	15.7	12.9	13.0
Sex: Male	200	203	399	141	95	236	323	52
Female	211	194	341	159	81	218	314	66
Out-of-Wedlock, Percent	13.9	19.1	9.5	28.7	10.2	16.1	15.2	20.3
Race: White	411	355	729	228	171	448	617	96
Black	-	1	1	1	-	3	2	-
Indian	-	41	4	70	2	1	15	22
Live Birth Order								
Median	2.4	2.5	2.3	2.5	2.6	2.5	2.4	2.6
% 5th or over	1.9	4.8	3.1	8.0	4.0	5.1	2.5	5.1
Prematurity, Percent								
Less than 37 weeks	3.9	10.3	7.4	5.7	6.3	4.6	5.0	11.9
Less than 2,500 grams	4.6	5.5	5.7	5.3	5.1	4.4	3.1	5.9
Plurality:								
Single	401	385	718	290	174	438	629	110
Twin	10	12	22	10	2	16	8	8
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.7	1.5	1.2	4.0	2.3	2.9	1.9	5.1
18-19	3.6	6.8	3.1	7.7	6.3	6.2	5.0	12.7
40 and over	.2	1.0	.9	.3	1.1	.7	.8	.8
Mother's Education, Percent								
Less than 12 years	1.7	11.6	5.7	11.0	5.7	11.2	7.8	18.6
Over 3 years college	4.6	12.6	21.2	9.3	14.2	12.6	22.3	11.0
Prenatal Care Began, Percent								
3rd Trimester or none	1.9	3.8	1.6	8.0	5.7	3.3	7.7	2.5
Prenatal Care Visits								
Median	10.5	11.3	12.3	10.3	10.9	11.1	11.6	11.1
Congenital Anomalies, Percent	1.5	1.3	1.8	.7	2.8	1.3	2.0	.8
High Risk, Percent	26.3	23.7	22.0	23.3	26.1	20.9	14.8	31.4
Other Significant Conditions of Child, Percent	11.2	7.1	4.7	6.3	10.2	5.1	1.4	10.2
Infant Deaths								
Total	3	5	4	1	2	1	6	5
White	3	5	4	1	2	1	5	2
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	1	3
Neonatal Deaths								
Total	3	3	3	-	2	1	3	4
White	3	3	3	-	2	1	3	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	3
First Day Deaths								
Total	2	3	1	-	-	-	-	3
White	2	3	1	-	-	-	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	2
1-6 Day Deaths								
Total	1	-	1	-	1	-	1	1
White	1	-	1	-	1	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	1
7-27 Day Deaths								
Total	-	-	1	-	1	1	2	-
White	-	-	1	-	1	1	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	1	2	2	2	-	2	2	2
White	1	1	2	2	-	2	2	-
Black	-	-	-	-	-	-	-	-
Indian	-	1	-	-	-	-	-	2
Perinatal Rate	9.7	12.6	6.8	6.7	11.4	6.6	7.8	50.8
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fill-more
Live Births	44	176	619	4,423	268	383	242	289
Fertility Rate	46.1	75.1	72.0	69.4	85.5	62.2	77.1	73.4
Birth Rate	10.3	13.1	14.2	18.5	17.7	12.8	13.3	13.6
Sex: Male	22	88	321	2,286	139	197	131	152
Female	22	88	298	2,137	129	186	111	137
Out-of-Wedlock, Percent	4.5	10.2	19.9	11.5	9.3	10.7	14.0	13.8
Race: White	39	174	608	4,261	266	375	241	289
Black	1	1	1	70	1	1	-	-
Indian	3	1	9	19	1	5	-	-
Live Birth Order								
Median	2.4	2.5	2.5	2.2	2.6	2.5	2.5	2.6
% 5th or over	2.3	4.0	5.0	1.9	6.0	4.7	2.9	8.3
Prematurity, Percent								
Less than 37 weeks	4.5	6.3	8.1	5.2	6.0	5.2	7.4	4.8
Less than 2,500 grams	6.8	3.4	5.7	4.5	4.9	5.2	5.8	3.1
Plurality:								
Single	44	172	599	4,323	266	372	236	283
Twin	-	4	20	100	2	11	6	6
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.3	.6	2.9	1.4	1.5	2.1	2.9	1.7
18-19	2.3	4.5	8.7	3.6	6.3	6.5	5.0	4.2
40 and over	-	2.3	1.3	.9	.7	.8	.8	1.4
Mother's Education, Percent								
Less than 12 years	6.8	5.7	13.2	5.2	9.3	6.3	10.7	9.7
Over 3 years college	36.4	19.9	15.0	25.3	16.8	13.6	18.6	11.8
Prenatal Care Began, Percent								
3rd Trimester or none	2.3	1.7	5.0	3.3	2.6	2.6	1.2	4.8
Prenatal Care Visits								
Median	11.3	12.4	10.7	11.0	11.2	11.3	10.5	10.8
Congenital Anomalies, Percent	9.1	.6	1.1	1.0	1.9	1.3	2.1	.7
High Risk, Percent	25.0	26.1	24.9	18.0	26.5	20.4	22.7	19.0
Other Significant Conditions of Child, Percent	4.5	9.1	7.4	4.6	10.1	7.0	5.8	3.8
Infant Deaths								
Total	-	-	7	35	2	5	3	1
White	-	-	7	33	2	5	3	1
Black	-	-	-	1	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	-	-	3	22	-	2	3	1
White	-	-	3	21	-	2	3	1
Black	-	-	-	1	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	-	-	2	8	-	2	2	-
White	-	-	2	7	-	2	2	-
Black	-	-	-	1	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	-	-	3	-	-	1	-
White	-	-	-	3	-	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	1	11	-	-	-	1
White	-	-	1	11	-	-	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	-	4	15	4	2	3	3
White	-	-	4	13	3	2	3	3
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	-	-	11.3	8.4	14.9	10.4	24.8	13.8
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Freeborn	Goodhue	Grant	Hennepin	Minneapolis	Houston	Hubbard
Live Births	426	562	71	15,910	6,374	292	202
Fertility Rate	62.3	68.5	57.4	62.3	68.2	79.0	63.0
Birth Rate	12.3	13.9	10.1	16.3	17.9	15.4	13.0
Sex: Male	241	294	34	8,245	3,283	153	111
Female	185	268	37	7,665	3,091	139	91
Out-of-Wedlock, Percent	16.9	13.5	11.3	21.6	37.3	12.0	14.9
Race: White	422	546	70	12,985	4,103	291	189
Black	-	3	-	1,647	1,383	-	-
Indian	1	10	1	476	435	1	11
Live Birth Order							
Median	2.4	2.5	2.6	2.2	2.2	2.3	2.6
% 5th or over	1.4	2.0	5.6	3.3	5.2	2.1	6.4
Prematurity, Percent							
Less than 37 weeks	10.6	6.4	8.5	6.3	7.3	5.5	5.4
Less than 2,500 grams	5.4	4.1	5.6	5.7	7.7	3.1	5.4
Plurality:							
Single	416	552	67	15,564	6,215	282	196
Twin	10	10	4	334	153	10	6
Triplet	-	-	-	12	6	-	-
Mother's Age, Percent							
Under 18	2.1	1.2	-	2.8	5.1	1.4	2.5
18-19	7.0	5.2	2.8	4.6	7.5	4.8	5.9
40 and over	1.2	1.1	-	1.0	.9	1.4	2.0
Mother's Education, Percent							
Less than 12 years	13.6	9.3	1.4	11.9	22.0	3.4	11.9
Over 3 years college	9.9	17.3	15.5	28.1	24.0	22.9	12.9
Prenatal Care Began, Percent							
3rd Trimester or none	3.8	2.8	1.4	4.9	8.4	2.7	5.4
Prenatal Care Visits							
Median	9.8	12.1	11.2	12.0	11.2	11.7	10.5
Congenital Anomalies, Percent	1.4	1.4	1.4	1.0	1.1	3.8	.5
High Risk, Percent	21.6	19.8	23.9	23.4	29.7	15.4	27.7
Other Significant Conditions of Child, Percent	5.2	3.7	7.0	4.2	5.4	3.1	6.4
Infant Deaths							
Total	3	3	-	159	81	2	1
White	3	3	-	118	45	2	1
Black	-	-	-	30	26	-	-
Indian	-	-	-	7	6	-	-
Neonatal Deaths							
Total	3	2	-	97	44	1	
White	3	2	-	70	21	1	-
Black	-	-	-	22	18	-	-
Indian	-	-	-	3	3	-	-
First Day Deaths							
Total	1	1	-	56	29	-	-
White	1	1	-	41	15	-	-
Black	-	-	-	12	11	-	-
Indian	-	-	-	1	1	-	-
1-6 Day Deaths							
Total	1	1	-	17	8	-	-
White	1	1	-	9	1	-	-
Black	-	-	-	6	5	-	-
Indian	-	-	-	2	2	-	-
7-27 Day Deaths							
Total	1	-	-	24	7	1	-
White	1	-	-	20	5	1	-
Black	-	-	-	4	2	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	2	5	-	106	57	2	1
White	2	5	-	68	27	2	1
Black	-	-	-	21	18	-	-
Indian	-	-	-	8	7	-	-
Perinatal Rate	11.7	12.5	-	12.8	15.8	10.3	5.0
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Kooch-iching
Live Births	363	505	150	180	553	82	170
Fertility Rate	56.2	56.2	61.0	69.5	59.5	65.8	52.9
Birth Rate	13.7	11.6	11.6	14.1	13.8	12.6	10.8
Sex: Male	183	262	79	90	260	38	94
Female	180	243	71	90	293	44	76
Out-of-Wedlock, Percent	19.0	21.8	13.3	18.3	12.1	8.5	28.8
Race: White	354	432	140	178	548	80	152
Black	-	1	-	1	1	-	2
Indian	-	68	2	-	3	-	10
Live Birth Order							
Median	2.4	2.6	2.6	2.5	2.4	2.6	2.2
% 5th or over	4.1	4.2	3.3	2.8	3.4	4.9	3.5
Prematurity, Percent							
Less than 37 weeks	4.7	5.7	5.3	7.8	7.1	9.8	1.8
Less than 2,500 grams	4.4	3.8	2.0	5.6	6.1	6.1	6.5
Plurality:							
Single	349	495	150	174	537	76	166
Twin	14	10	-	6	16	6	4
Triplet	-	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	4.1	4.2	3.3	5.0	2.7	2.4	2.4
18-19	9.1	6.5	4.0	9.4	6.5	4.9	7.6
40 and over	-	.8	.7	-	.2	-	1.8
Mother's Education, Percent							
Less than 12 years	11.0	12.5	8.0	21.1	8.5	8.5	10.0
Over 3 years college	10.5	10.3	12.0	11.7	12.8	25.6	15.9
Prenatal Care Began, Percent							
3rd Trimester or none	3.6	3.0	2.7	2.8	2.0	4.9	1.8
Prenatal Care Visits							
Median	11.8	11.2	12.3	10.6	11.3	10.3	10.6
Congenital Anomalies, Percent	1.4	2.2	1.3	.6	1.6	4.9	1.2
High Risk, Percent	24.0	21.2	24.0	21.7	18.3	20.7	15.3
Other Significant Conditions of Child, Percent	6.1	7.9	8.7	7.8	9.0	2.4	1.8
Infant Deaths							
Total	2	7	2	2	4	-	1
White	2	5	2	2	4	-	1
Black	-	-	-	-	-	-	-
Indian	-	2	-	-	-	-	-
Neonatal Deaths							
Total	1	4	2	1	2	-	-
White	1	2	2	1	2	-	-
Black	-	-	-	-	-	-	-
Indian	-	2	-	-	-	-	-
First Day Deaths							
Total	1	2	1	1	-	-	-
White	1	1	1	1	-	-	-
Black	-	-	-	-	-	-	-
Indian	-	1	-	-	-	-	-
1-6 Day Deaths							
Total	-	2	1	-	1	-	-
White	-	1	1	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	1	-	-	-	-	-
7-27 Day Deaths							
Total	-	-	-	-	1	-	-
White	-	-	-	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	7	3	-	2	3	-	1
White	6	3	-	1	3	-	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	22.0	13.9	13.3	16.7	9.0	-	5.9
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Lac Qui Parle	Lake	Lake of the Woods	LeSueur	Lin-coln	Lyon	Mc-Leod	Mahnomen
Live Births	112	102	61	333	80	407	455	76
Fertility Rate	66.9	48.5	82.7	74.5	64.6	71.7	69.0	80.0
Birth Rate	11.4	9.1	15.7	14.2	10.4	15.9	14.8	13.7
Sex: Male	53	53	27	171	35	202	235	41
Female	59	49	34	162	45	205	220	35
Out-of-Wedlock, Percent	8.9	13.7	16.4	13.5	15.0	8.8	10.8	32.9
Race: White	112	100	61	332	80	405	449	43
Black	-	1	-	-	-	1	-	-
Indian	-	1	-	-	-	-	1	31
Live Birth Order								
Median	2.6	2.3	2.3	2.4	2.8	2.4	2.4	2.2
% 5th or over	4.5	2.0	11.5	4.8	6.3	3.4	2.4	9.2
Prematurity, Percent								
Less than 37 weeks	6.3	6.9	11.5	4.8	5.0	6.4	7.5	3.9
Less than 2,500 grams	2.7	6.9	8.2	5.4	2.5	3.7	5.1	3.9
Plurality:								
Single	110	98	59	321	80	396	440	76
Twin	2	4	2	12	-	11	15	-
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	1.8	2.0	1.6	1.8	5.0	.5	.7	5.3
18-19	4.5	4.9	8.2	4.8	3.8	4.9	5.1	7.9
40 and over	.9	1.0	-	1.2	1.3	1.0	.7	3.9
Mother's Education, Percent								
Less than 12 years	6.3	9.8	8.2	6.0	8.8	5.7	6.2	14.5
Over 3 years college	16.1	14.7	14.8	13.8	12.5	20.6	12.7	13.2
Prenatal Care Began, Percent								
3rd Trimester or none	5.4	2.9	9.8	2.7	2.5	2.7	2.6	7.9
Prenatal Care Visits								
Median	10.1	12.1	10.2	12.1	10.4	11.7	12.1	10.5
Congenital Anomalies, Percent	1.8	-	3.3	1.5	3.8	2.2	1.1	2.6
High Risk, Percent	21.4	24.5	37.7	23.4	31.3	25.6	22.2	28.9
Other Significant Conditions of Child, Percent	7.1	7.8	13.1	6.3	11.3	6.9	6.8	7.9
nfant Deaths								
Total	-	-	-	3	-	1	6	1
White	-	-	-	3	-	1	6	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
eonatal Deaths								
Total	-	-	-	2	-	1	1	1
White	-	-	-	2	-	1	1	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
irst Day Deaths								
Total	-	-	-	2	-	-	1	-
White	-	-	-	2	-	-	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
-6 Day Deaths								
Total	-	-	-	-	-	1	-	-
White	-	-	-	-	-	1	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
-27 Day Deaths								
Total	-	-	-	-	-	-	-	1
White	-	-	-	-	-	-	-	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
etal Deaths								
Total	2	2	-	2	-	2	1	-
White	2	2	-	2	-	1	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
erinatal Rate	17.9	19.6	-	12.0	-	7.4	4.4	13.2
aternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Marshall	Martin	Meeker	Mille Lacs	Morrison	Mower	Murray
Live Births	145	296	305	257	511	490	128
Fertility Rate	63.4	66.8	77.3	73.3	86.8	69.6	69.2
Birth Rate	11.6	12.4	14.5	13.7	16.9	12.6	12.0
Sex: Male	66	146	162	137	276	254	60
Female	79	150	143	120	235	236	68
Out-of-Wedlock, Percent	9.7	11.8	13.1	20.6	13.1	14.5	9.4
Race: White	144	295	304	243	509	485	124
Black	-	-	-	-	2	1	1
Indian	1	-	1	14	-	1	1
Live Birth Order							
Median	2.9	2.5	2.6	2.5	2.7	2.4	2.7
% 5th or over	2.8	1.7	5.2	3.9	8.0	3.1	6.3
Prematurity, Percent							
Less than 37 weeks	3.4	5.1	8.5	6.2	6.1	8.0	4.7
Less than 2,500 grams	2.8	4.1	5.2	4.7	4.7	2.9	3.9
Plurality:							
Single	145	292	298	251	500	480	126
Twin	-	4	7	6	11	10	2
Triplet	-	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	3.4	2.4	2.3	2.3	2.7	1.8	2.3
18-19	3.4	4.7	4.9	7.8	6.8	4.3	3.9
40 and over	.7	.3	1.3	.4	1.6	.4	2.3
Mother's Education, Percent							
Less than 12 years	9.0	7.8	10.5	16.0	6.5	6.5	3.1
Over 3 years college	15.2	15.2	9.8	8.9	9.2	13.1	18.0
Prenatal Care Began, Percent							
3rd Trimester or none	4.1	1.4	3.0	3.1	2.3	3.5	5.5
Prenatal Care Visits							
Median	10.6	12.0	11.1	10.9	11.8	10.7	12.3
Congenital Anomalies, Percent	2.8	1.7	2.3	2.3	1.2	2.4	3.9
High Risk, Percent	13.1	16.9	18.4	20.2	19.4	18.8	25.8
Other Significant Conditions of Child, Percent	2.8	6.8	7.5	5.8	4.1	5.1	3.9
Infant Deaths							
Total	1	1	6	3	3	3	-
White	1	1	6	3	3	3	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Neonatal Deaths							
Total	1	-	4	1	1	-	-
White	1	-	4	1	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	1	-	2	1	1	-	-
White	1	-	2	1	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	-	-	1	-	-	-	-
White	-	-	1	-	-	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	-	-	1	-	-	-	-
White	-	-	1	-	-	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	1	1	4	3	3	4	1
White	1	1	4	2	3	4	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	13.8	3.4	26.2	15.6	7.8	8.2	7.8
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Nicollet	Nobles	Norman	Olmsted	Otter Tail	Penn-ington	Pine
Live Births	405	296	87	1,783	657	173	291
Fertility Rate	58.2	68.9	55.8	64.8	62.1	59.2	74.2
Birth Rate	14.2	13.9	9.7	17.7	11.9	12.8	13.8
Sex: Male	219	138	40	905	356	99	151
Female	186	158	47	878	301	74	140
Out-of-Wedlock, Percent	11.9	10.1	8.0	10.5	12.5	15.0	17.5
Race: White	401	289	85	1,680	644	170	281
Black	1	1	-	12	3	-	-
Indian	2	2	1	5	10	3	9
Live Birth Order							
Median	2.4	2.3	2.5	2.3	2.4	2.5	2.7
% 5th or over	4.4	2.4	3.4	3.3	3.0	3.5	5.8
Prematurity, Percent							
Less than 37 weeks	4.7	7.8	4.6	6.6	7.0	8.1	5.5
Less than 2,500 grams	4.4	5.4	2.3	5.2	5.0	4.6	4.5
Plurality:							
Single	399	288	85	1,751	632	169	283
Twin	6	8	2	26	25	4	8
Triplet	-	-	-	6	-	-	-
Mother's Age, Percent							
Under 18	2.2	.7	-	1.5	2.9	1.7	2.4
18-19	4.9	6.1	4.6	3.6	7.0	7.5	4.8
40 and over	1.0	.3	1.1	.8	.3	.6	-
Mother's Education, Percent							
Less than 12 years	4.2	4.7	8.0	8.1	9.6	7.5	16.8
Over 3 years college	24.9	14.9	13.8	30.1	10.5	15.0	11.0
Prenatal Care Began, Percent							
3rd Trimester or none	1.7	2.4	13.8	2.5	5.0	8.1	9.3
Prenatal Care Visits							
Median	12.4	13.5	9.7	11.4	11.9	10.8	10.8
Congenital Anomalies, Percent	1.5	1.0	1.1	1.2	1.4	.6	1.7
High Risk, Percent	21.7	14.2	23.0	26.3	22.7	21.4	20.6
Other Significant Conditions of Child, Percent	4.9	1.4	3.4	6.3	4.7	6.4	6.2
Infant Deaths							
Total	1	-	-	20	3	2	2
White	1	-	-	18	3	2	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	1
Neonatal Deaths							
Total	1	-	-	15	2	1	-
White	1	-	-	14	2	1	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	-	-	-	8	1	1	-
White	-	-	-	7	1	1	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	1	-	-	1	-	-	-
White	1	-	-	1	-	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	-	-	-	6	1	-	-
White	-	-	-	6	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	-	2	1	9	4	-	1
White	-	2	-	8	4	-	1
Black	-	-	-	1	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	2.5	6.8	11.5	13.5	9.1	5.8	3.4
Maternal Deaths	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Pipe-stone	Polk	Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville
Live Births	127	482	131	7,935	4,942	76	289	272
Fertility Rate	64.0	71.9	67.5	67.9	77.7	83.6	88.5	80.0
Birth Rate	11.5	14.3	11.3	16.9	18.7	15.3	15.9	14.4
Sex: Male	71	257	77	4,156	2,612	36	152	133
Female	56	225	54	3,779	2,330	40	137	139
Out-of-Wedlock, Percent	11.0	20.1	9.2	22.7	30.0	18.4	9.3	9.9
Race: White	113	464	129	6,429	3,601	74	280	269
Black	-	-	-	590	556	-	-	-
Indian	13	18	1	115	97	2	9	2
Live Birth Order								
Median	2.7	2.6	2.3	2.3	2.3	2.9	2.6	2.6
% 5th or over	5.5	5.8	4.6	5.5	7.7	11.8	4.2	3.7
Prematurity, Percent								
Less than 37 weeks	11.0	6.0	2.3	5.8	6.6	3.9	9.7	5.5
Less than 2,500 grams	1.6	4.4	1.5	5.6	6.4	3.9	7.3	2.6
Plurality:								
Single	119	476	131	7,776	4,841	76	272	268
Twin	8	6	-	159	101	-	17	4
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	1.6	3.1	1.5	3.5	4.9	5.3	2.8	2.2
18-19	7.1	7.1	3.8	5.3	6.7	1.3	4.5	2.9
40 and over	-	.6	.8	1.2	1.4	-	.3	.7
Mother's Education, Percent								
Less than 12 years	11.0	14.1	4.6	11.5	15.9	13.2	6.6	6.6
Over 3 years college	15.7	14.3	13.7	24.5	21.4	10.5	14.2	16.5
Prenatal Care Began, Percent								
3rd Trimester or none	2.4	6.4	1.5	5.6	7.6	2.6	1.4	.7
Prenatal Care Visits								
Median	11.9	10.8	11.0	10.7	10.6	10.3	11.9	11.5
Congenital Anomalies, Percent	.8	1.7	-	1.1	1.2	1.3	2.4	2.2
High Risk, Percent	10.2	21.0	17.6	23.0	25.6	25.0	19.7	20.6
Other Significant Conditions of Child, Percent	3.1	4.6	6.9	3.3	3.4	10.5	7.3	5.9
Infant Deaths								
Total	-	10	1	62	47	2	3	1
White	-	10	1	44	30	2	3	1
Black	-	-	-	12	11	-	-	-
Indian	-	-	-	1	1	-	-	-
Neonatal Deaths								
Total	-	4	1	34	25	2	2	1
White	-	4	1	25	16	2	2	1
Black	-	-	-	6	6	-	-	-
Indian	-	-	-	1	1	-	-	-
First Day Deaths								
Total	-	1	-	20	14	-	-	-
White	-	1	-	16	10	-	-	-
Black	-	-	-	3	3	-	-	-
Indian	-	-	-	1	1	-	-	-
1-6 Day Deaths								
Total	-	1	-	9	6	2	1	1
White	-	1	-	7	4	2	1	1
Black	-	-	-	2	2	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	2	1	5	5	-	1	-
White	-	2	1	2	2	-	1	-
Black	-	-	-	1	1	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	1	6	1	53	35	-	-	4
White	1	5	1	43	27	-	-	3
Black	-	-	-	2	2	-	-	-
Indian	-	1	-	2	2	-	-	-
Perinatal Rate	7.9	20.7	15.3	11.0	12.1	26.3	6.9	18.4
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Rice	Rock	Roseau	St. Louis	Duluth	Scott	Sher-burne	Sibley
Live Births	638	115	246	2,367	1,172	999	548	210
Fertility Rate	53.1	56.0	88.8	54.1	61.6	75.4	61.8	74.7
Birth Rate	13.3	11.2	17.6	11.8	14.1	18.6	15.0	13.7
Sex: Male	342	57	118	1,203	574	541	262	108
Female	296	58	128	1,163	597	458	286	102
Out-of-Wedlock, Percent	17.6	7.0	8.9	22.1	24.3	9.7	9.9	7.6
Race: White	626	114	237	2,227	1,085	976	522	209
Black	5	-	-	26	22	7	-	-
Indian	-	1	5	91	50	11	2	1
Live Birth Order								
Median	2.4	2.5	2.4	2.4	2.3	2.3	2.4	2.4
% 5th or over	2.8	3.5	2.0	3.7	2.7	2.6	3.1	5.2
Prematurity, Percent								
Less than 37 weeks	5.2	3.5	4.5	7.3	7.4	6.2	3.3	2.4
Less than 2,500 grams	4.5	.9	4.1	5.1	6.0	5.7	4.0	2.4
Plurality:								
Single	622	112	246	2,309	1,148	977	544	206
Twin	16	3	-	54	20	22	4	4
Triplet	-	-	-	-	-	-	-	-
Mother's Age, Percent								
Under 18	2.7	-	1.2	2.4	2.0	1.3	1.8	1.9
18-19	5.6	6.1	9.3	7.1	5.7	3.5	2.9	4.8
40 and over	1.1	2.6	-	.7	.7	.7	.7	1.9
Mother's Education, Percent								
Less than 12 years	10.8	2.6	8.9	12.6	14.2	6.5	7.7	2.9
Over 3 years college	19.4	13.9	8.9	17.7	20.0	17.3	14.6	8.1
Prenatal Care Began, Percent								
3rd Trimester or none	2.8	2.6	1.6	3.5	3.0	3.6	1.1	2.4
Prenatal Care Visits								
Median	11.5	12.3	11.1	11.5	11.5	11.8	11.6	11.9
Congenital Anomalies, Percent	1.6	-	2.8	1.6	1.7	1.8	1.3	.5
High Risk, Percent	22.1	10.4	22.4	23.8	22.8	19.8	19.7	23.3
Other Significant Conditions of Child, Percent	7.7	2.6	7.3	5.7	5.5	4.1	4.0	6.2
Infant Deaths								
Total	10	-	2	34	23	8	6	1
White	10	-	2	33	23	8	6	1
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	1	-	-	-	-
Neonatal Deaths								
Total	9	-	1	19	15	5	5	-
White	9	-	1	19	15	5	5	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	6	-	-	12	12	2	3	-
White	6	-	-	12	12	2	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	1	-	1	5	1	2	1	-
White	1	-	1	5	1	2	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	2	-	-	2	2	1	1	-
White	2	-	-	2	2	1	1	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	2	-	1	18	5	1	2	-
White	2	-	1	14	3	1	2	-
Black	-	-	-	1	-	-	-	-
Indian	-	-	-	2	2	-	-	-
Perinatal Rate	17.2	-	8.1	15.6	17.1	6.0	12.8	-
Maternal Deaths	-	-	-	-	-	-	-	-

Table 9

SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
Live Births	1,772	441	140	133	336	43	267
Fertility Rate	62.4	65.3	62.4	63.6	71.4	51.9	72.5
Birth Rate	15.1	14.3	12.8	10.9	13.3	8.7	13.8
Sex: Male	902	216	59	67	170	24	123
Female	870	225	81	66	166	19	144
Out-of-Wedlock, Percent	12.8	13.8	10.7	15.0	11.0	9.3	10.9
Race: White	1,756	438	137	131	333	41	266
Black	4	-	-	-	-	-	-
Indian	8	2	2	1	1	2	1
Live Birth Order							
Median	2.5	2.3	2.3	2.6	2.7	2.6	2.4
% 5th or over	6.2	2.9	2.9	1.5	10.1	4.7	4.1
Prematurity, Percent							
Less than 37 weeks	6.5	5.7	2.9	7.5	3.6	7.0	6.7
Less than 2,500 grams	3.4	5.7	3.6	3.8	3.0	7.0	4.1
Plurality:							
Single	1,741	429	134	129	334	39	263
Twin	31	12	6	4	2	4	4
Triplet	-	-	-	-	-	-	-
Mother's Age, Percent							
Under 18	1.1	2.9	2.1	.8	2.1	-	2.2
18-19	4.4	7.5	5.7	3.0	7.1	2.3	3.7
40 and over	1.2	.7	1.4	-	.6	-	.4
Mother's Education, Percent							
Less than 12 years	4.8	9.8	2.1	8.3	11.0	4.7	5.2
Over 3 years college	15.3	15.0	5.0	15.0	8.6	11.6	19.1
Prenatal Care Began, Percent							
3rd Trimester or none	1.5	2.3	2.9	2.3	4.8	9.3	2.6
Prenatal Care Visits							
Median	11.9	10.7	10.4	11.2	11.3	11.3	11.2
Congenital Anomalies, Percent	1.5	2.9	.7	2.3	3.3	-	1.9
High Risk, Percent	20.7	25.2	11.4	13.5	22.3	18.6	25.5
Other Significant Conditions of Child, Percent	5.2	7.5	5.0	6.0	4.8	2.3	6.7
Infant Deaths							
Total	10	3	-	-	4	-	-
White	10	3	-	-	4	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Neonatal Deaths							
Total	7	2	-	-	3	-	-
White	7	2	-	-	3	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
First Day Deaths							
Total	6	-	-	-	2	-	-
White	6	-	-	-	2	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
1-6 Day Deaths							
Total	1	1	-	-	1	-	-
White	1	1	-	-	1	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
7-27 Day Deaths							
Total	-	1	-	-	-	-	-
White	-	1	-	-	-	-	-
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Fetal Deaths							
Total	10	3	1	2	2	-	2
White	9	3	1	2	2	-	1
Black	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-
Perinatal Rate	9.6	11.3	7.1	15.0	14.9	-	7.5
Maternal Deaths	-	1	-	-	-	-	-

Table 9
SELECTED RESIDENT NATALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

	Wadena	Waseca	Washington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
Live Births	217	247	1,975	144	108	610	1,163	155
Fertility Rate	84.7	61.5	58.8	68.5	73.1	51.3	75.9	71.3
Birth Rate	15.8	13.1	15.1	12.6	13.4	12.9	17.7	12.4
Sex: Male	111	128	1,024	81	50	298	589	80
Female	106	119	951	63	58	312	574	75
Out-of-Wedlock, Percent	13.8	10.9	10.7	10.4	13.0	16.7	13.0	11.6
Race: White	214	244	1,924	142	105	596	1,120	151
Black	-	-	18	-	-	4	1	-
Indian	2	-	9	2	2	1	7	4
Live Birth Order								
Median	2.5	2.4	2.4	2.6	2.4	2.5	2.5	2.7
% 5th or over	4.1	4.5	2.4	6.3	4.6	4.4	6.2	5.8
Prematurity, Percent								
Less than 37 weeks	3.2	4.0	5.9	4.9	14.8	7.5	5.7	5.8
Less than 2,500 grams	2.8	6.9	5.4	2.8	6.5	4.4	4.6	3.2
Plurality:								
Single	215	237	1,923	141	106	602	1,130	151
Twin	2	10	52	-	2	8	30	4
Triplet	-	-	-	3	-	-	3	-
Mother's Age, Percent								
Under 18	2.3	1.6	1.5	3.5	2.8	1.8	2.5	3.2
18-19	10.6	3.6	2.7	6.3	5.6	5.4	4.9	3.2
40 and over	.9	.4	.9	.7	1.9	1.0	1.1	-
Mother's Education, Percent								
Less than 12 years	8.3	6.5	4.0	15.3	9.3	11.1	9.0	9.0
Over 3 years college	11.5	13.8	25.3	15.3	8.3	21.3	10.0	11.0
Prenatal Care Began, Percent								
3rd Trimester or none	4.1	1.6	1.9	2.1	2.8	2.8	1.2	6.5
Prenatal Care Visits								
Median	10.7	11.7	10.9	11.3	12.2	11.4	11.4	11.1
Congenital Anomalies, Percent	2.3	1.6	1.5	-	1.9	1.5	.9	3.9
High Risk, Percent	18.4	24.3	19.1	10.4	32.4	16.7	21.0	19.4
Other Significant Conditions of Child, Percent	4.1	4.9	4.5	5.6	10.2	6.4	5.2	4.5
Infant Deaths								
Total	3	1	19	1	-	2	9	-
White	3	1	19	1	-	2	9	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Neonatal Deaths								
Total	1	1	11	-	-	1	6	-
White	1	1	11	-	-	1	6	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
First Day Deaths								
Total	1	1	9	-	-	1	3	-
White	1	1	9	-	-	1	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
1-6 Day Deaths								
Total	-	-	-	-	-	-	3	-
White	-	-	-	-	-	-	3	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
7-27 Day Deaths								
Total	-	-	2	-	-	-	-	-
White	-	-	2	-	-	-	-	-
Black	-	-	-	-	-	-	-	-
Indian	-	-	-	-	-	-	-	-
Fetal Deaths								
Total	-	1	13	-	1	3	10	-
White	-	1	11	-	-	2	8	-
Black	-	-	1	-	-	1	-	-
Indian	-	-	-	-	-	-	-	-
Perinatal Rate	4.6	8.1	12.2	-	9.3	6.6	13.8	-
Maternal Deaths	-	-	-	-	-	-	-	-

* As of the 1980 Census

Table 10
LIVE BIRTH WEIGHT BY LIVE BIRTH ORDER AND SEX
MINNESOTA RESIDENTS, 1987

		Weight in Grams									
Live Birth Order	Total Births	999 or Less	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 to 4,499	4,500 and Over	Weight Not Stated
First	24,903	142	122	266	885	3,529	9,283	7,817	2,421	407	31
Second	21,655	86	90	180	603	2,438	7,330	7,635	2,732	540	21
Third	11,248	42	31	75	352	1,252	3,687	3,930	1,506	364	9
Fourth	3,833	15	17	38	148	458	1,209	1,280	564	152	2
Fifth	1,363	7	1	13	50	188	422	429	200	52	1
Sixth	528	2	2	6	20	73	186	150	67	22	-
Seventh	254	3	-	1	8	25	84	89	30	13	1
Eight or Over	319	1	-	4	9	40	95	100	50	19	1
Not Stated	1,015	10	4	5	27	88	197	182	49	15	438
TOTAL	65,168*	308*	267	588	2,102	8,091	22,493	21,612	7,619	1,584	504
Male	33,593	172	146	300	959	3,526	10,500	11,804	4,831	1,093	262
Female	31,574	135	121	288	1,143	4,565	11,993	9,808	2,788	491	242

* Includes Unknown Sex

Table 11
LIVE BIRTHS BY AGE OF MOTHER AND LIVE BIRTH ORDER
MINNESOTA RESIDENTS, 1987

		Age of Mother								
Live Birth Order	Total Births	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 & Over Years	Age Not Stated
First	24,903	51	3,834	8,091	8,629	3,447	766	79	2	4
Second	21,655	2	757	5,278	8,830	5,379	1,298	110	1	-
Third	11,248	-	127	1,758	4,490	3,658	1,104	108	3	-
Fourth	3,883	-	18	430	1,345	1,425	579	84	2	-
Fifth	1,363	-	4	118	393	514	285	42	7	-
Sixth	528	-	1	21	105	204	157	35	5	-
Seventh	254	-	-	6	51	91	72	26	8	-
Eight or Over	319	-	-	1	26	102	111	65	14	-
Not Stated	1,015	-	62	252	397	230	62	9	2	1
TOTAL	65,168	53	4,803	15,955	24,266	15,050	4,434	558	44	5
Percent	100.0	0.1	7.4	24.5	37.2	23.1	6.8	0.9	0.1	0.0

Table 12
PRENATAL CARE AND RACE BY AGE OF MOTHER AND BY LEGITIMACY STATUS
MINNESOTA RESIDENTS, 1987

			Age of Mother					
	Total	Percent	Under 15	15-19	20-29	30-39	40 and Over	Unknown
Legitimate Live Births	54,055*	-	2	1,293	33,942	18,276	538	4
Prenatal Care Started								
1st Trimester	40,586	75.1	1	762	25,478	14,004	339	2
2nd Trimester	5,900	10.9	1	298	3,726	1,774	101	-
3rd Trimester	955	1.8	-	56	593	281	25	-
No Care	401	0.7	-	12	230	149	10	-
Unknown	6,213	11.5	-	165	3,915	2,068	63	2
Race								
White	50,692	94.3	1	1,123	31,940	17,153	471	4
Black	878	1.6	-	27	542	307	2	-
Indian	490	0.9	1	36	330	120	3	-
Out-of-Wedlock Live Births	11,113**	-	51	3,510	6,279	1,208	64	1
Prenatal Care Started								
1st Trimester	5,445	49.0	12	1,509	3,209	676	39	-
2nd Trimester	2,891	26.0	21	1,085	1,543	227	15	-
3rd Trimester	875	7.9	7	306	480	78	4	-
No Care	285	2.6	2	97	155	30	1	-
Unknown	1,617	14.6	9	513	892	197	5	1
Race								
White	8,195	73.7	20	2,567	4,675	886	47	-
Black	1,572	14.1	16	531	857	163	5	-
Indian	1,004	9.0	7	289	596	109	3	-
Legitimate Fetal Deaths	296*	-	-	4	159	122	7	4
Race								
White	257	86.8	-	3	140	106	7	1
Black	6	2.0	-	-	1	5	-	-
Indian	3	1.0	-	-	2	1	-	-
Out-of-Wedlock Fetal Deaths	108**	-	2	29	65	10	2	-
Race								
White	62	57.4	1	17	36	8	-	-
Black	21	19.4	1	5	14	-	1	-
Indian	19	17.6	-	5	11	2	1	-

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* Includes deliveries of other and unknown races

** Includes deliveries of other and unknown races and unknown legitimacy status

Reported Induced Abortions

Table 13
TOTAL REPORTED AND RESIDENT INDUCED ABORTIONS
MINNESOTA 1973-1987

Year	Total Reported Abortions	Minnesota Resident Abortions	Resident Percent	Resident Abortion Rate
1973[1]	7,263	4,169	57.4	5.1
1974[1]	8,732	7,154	81.9	8.6
1975	10,565	8,924	84.5	10.3
1976	14,124	11,109	78.7	12.5
1977	15,532	13,036	83.9	14.4
1978	17,262	14,521	84.1	15.6
1979	18,672	15,647	83.8	16.4
1980	19,028	16,490	86.7	17.2
1981	18,304	15,821	86.4	16.3
1982	17,758	15,559	87.6	15.8
1983	16,428	14,514	88.3	14.7
1984	17,314	15,556	89.8	15.7
1985	17,686	16,002	90.5	16.1
1986	17,383	15,716	90.4	15.8
1987	17,653	15,746	89.2	15.7

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[1] Data obtained from the Center for Disease Control

Table 14
REPORTED INDUCED ABORTIONS
SELECTED SURVEILLANCE RESULTS AND COMPARISONS
MINNESOTA, 1983-1987

Reported Induced Abortions[1]	1987	1986	1985	1984	1983	Percent Change 1986-1987	Percent Change 1983-1987
Total Reported Abortions	17,653	17,383	17,686	17,314	16,428	+ 1.6	+ 7.5
Minnesota Resident Abortions	15,746	15,716	16,002	15,556	14,514	+ 0.2	+ 8.5
Total Monthly Average	1,471	1,449	1,474	1,443	1,369	+ 1.5	+ 7.5
Resident Monthly Average	1,312	1,310	1,334	1,296	1,210	+ 0.2	+ 8.4
Gestational Age[1]							
Proportion <9 weeks	49.9%	49.1%	46.7%	45.6%	47.9%	+ 1.6	+ 4.2
Proportion <13 weeks	89.0%	87.6%	87.6%	86.5%	87.9%	+ 1.6	+ 1.3
Proportion ≥16 weeks	5.5%	6.2%	5.9%	6.1%	5.6%	-11.3	- 1.8
Client's Age[1]							
Proportion <Age 18	10.5%	9.8%	9.8%	9.0%	9.9%	+ 7.1	+ 6.1
Proportion <Age 20	25.1%	24.9%	25.6%	25.6%	27.4%	+ 0.8	- 8.4
Proportion Age 20-34	68.0%	68.3%	68.3%	68.9%	67.2%	- 0.4	+ 1.2
Proportion ≥Age 35	6.7%	6.6%	6.0%	5.5%	5.4%	+ 1.5	+24.1
Contraception[1]							
Proportion "Never Used"	9.7%	10.8%	14.1%	15.3%	19.3%	-10.2	-49.7
Proportion "Used in Past but Not Now"[2]	61.1%	58.3%	54.3%	56.1%	56.3%	+ 4.8	+ 8.5
Proportion "Was Using at Conception"	26.7%	28.4%	28.5%	25.5%	21.6%	- 6.0	+23.6
Complications[1]							
Total per 1,000 Procedures	9.35	8.51	9.27	9.99	8.52	+ 9.9	+ 9.7
Resident per 1,000 Procedures	9.84	9.23	10.06	10.48	8.96	+ 6.6	+ 9.8
Resident - Suction Curettage	10.01	9.43	10.35	10.78	9.46	+ 6.2	+ 5.8
Resident - All Other Methods	7.55	6.93	6.81	7.37	4.95	+ 8.9	+52.5

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[1] Note: All data are Minnesota resident abortion statistics unless "Total" is indicated.

[2] Combines categories "Have Used but Discontinued" and "Interrupted Use of Usual Method", which were reported separately in years prior to 1985.

Table 15
REPORTED INDUCED ABORTIONS
BY SELECTED AGE GROUP BY RESIDENCE
MINNESOTA, 1987

	Total Reported Abortions			Minnesota Resident Abortions			
Age Group	Number	Percent of Teens	Percent of Total	Number	Percent of Teens	Percent of Residents	Resident Percent of Total
Total	17,653	-	100.0	15,746	-	100.0	89.2
<18	1,883	41.8	10.7	1,648	41.7	10.5	87.5
18-19	2,623	58.2	14.9	2,306	58.3	14.6	87.9
<20	4,506	100.0	25.5	3,954	100.0	25.1	87.7
20-24	6,298	-	35.7	5,576	-	35.4	88.5
25-29	3,671	-	20.8	3,339	-	21.2	91.0
30-34	1,958	-	11.1	1,790	-	11.4	91.4
35+	1,183	-	6.7	1,054	-	6.7	89.1
Unknown	37	-	0.2	33	-	0.2	89.2

FIGURE 1

REPORTED INDUCED ABORTIONS
BY RECIPIENT'S AGE, MINNESOTA, 1987

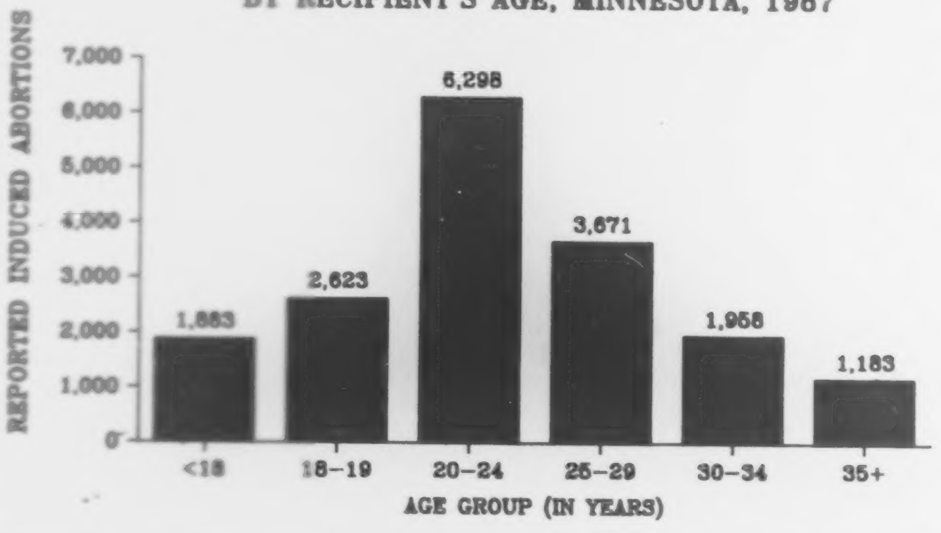

Table 16
REPORTED INDUCED ABORTIONS BY RACE/ETHNIC GROUP AND RESIDENCE
MINNESOTA, 1987

	Total Reported Abortions		Minnesota Resident Abortions		
Race	Number	Percent	Number	Percent	Resident Percent
White	15,727	89.1	13,904	88.3	88.4
Black	892	5.1	881	5.6	98.8
Indian	179	1.0	158	1.0	88.2
Hispanic	133	0.8	131	0.8	98.5
Asian	421	2.4	403	2.6	95.7
Other	95	0.5	88	0.6	92.6
Unknown	206	1.2	181	1.1	97.9
TOTAL	17,653	100.0	15,746	100.0	89.2

Table 17
REPORTED RESIDENT INDUCED ABORTIONS BY RACE AND AGE GROUP
MINNESOTA, 1987

	Race			
Age Group	White	Non-White	Unknown[1]	Total
TOTAL	13,904	1,530	312	15,746
<15	57	15	2	74
15-17	1,410	136	28	1,574
18-19	2,105	172	29	2,306
20-24	4,969	492	115	5,576
25-29	2,881	387	71	3,339
30-34	1,552	190	48	1,790
35+	905	133	16	1,054
Unknown	25	5	3	33

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[1] Includes Hispanic origin.

Table 18
REPORTED INDUCED ABORTIONS BY MARITAL STATUS AND RESIDENCE MINNESOTA, 1987

Marital Status	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
TOTAL	17,653	100.0	15,746	100.00	89.2
Never Married	12,236	69.3	10,911	69.3	89.2
Married	2,575	14.6	2,286	14.5	88.8
Other[1] and Unknown	2,842	16.1	2,549	16.2	89.7

[1] Other includes: Divorced, Separated, and Widowed

Table 19
REPORTED RESIDENT INDUCED ABORTIONS BY AGE GROUP AND MARITAL STATUS MINNESOTA, 1987

Age Group	Reported Resident Abortions	Marital Status		
		Never Married	Currently Married	Other[1] and Unknown
TOTAL	15,746	10,911	2,286	2,549
<18	1,648	1,635	7	6
18-19	2,306	2,226	44	36
20-24	5,576	4,535	497	544
25-29	3,339	1,721	749	869
30-34	1,790	582	551	657
35+	1,054	193	430	431
Unknown	33	19	8	6

[1] Other includes: Divorced, Separated, and Widowed.

Table 20
REPORTED INDUCED ABORTIONS BY GESTATION AND RESIDENCE
MINNESOTA, 1987

Weeks of Gestation[1] (Post LMP)	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent
	Number	Percent	Number	Percent	
TOTAL	17,653	100.0	15,746	100.0	89.2
<9	8,669	49.1	7,863	49.9	90.7
9-10	4,513	25.6	4,047	25.7	89.7
11-12	2,377	13.5	2,106	13.4	88.6
13-15	1,021	5.8	875	5.6	85.7
16-20	881	5.0	718	4.6	81.5
21+	192	1.1	137	0.9	71.4

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

Table 21
REPORTED RESIDENT INDUCED ABORTIONS BY AGE GROUP BY WEEKS OF GESTATION
MINNESOTA, 1987

Age Group	Reported Resident Abortions	Gestation in Weeks[1] (LMP)					
		<9	9-10	11-12	13-15	16-20	21+
TOTAL	15,746	7,863	4,047	2,106	875	718	137
<18	1,648	633	407	307	147	129	25
18-19	2,306	998	589	378	170	143	28
20-24	5,576	2,765	1,432	745	320	260	54
25-29	3,339	1,846	849	371	143	114	16
30-34	1,790	1,016	473	180	65	49	7
35+	1,054	591	286	121	28	21	7
Unknown	33	14	11	4	2	2	0

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

FIGURE 2

REPORTED INDUCED ABORTIONS
BY WEEKS OF GESTATION, MINNESOTA, 1987

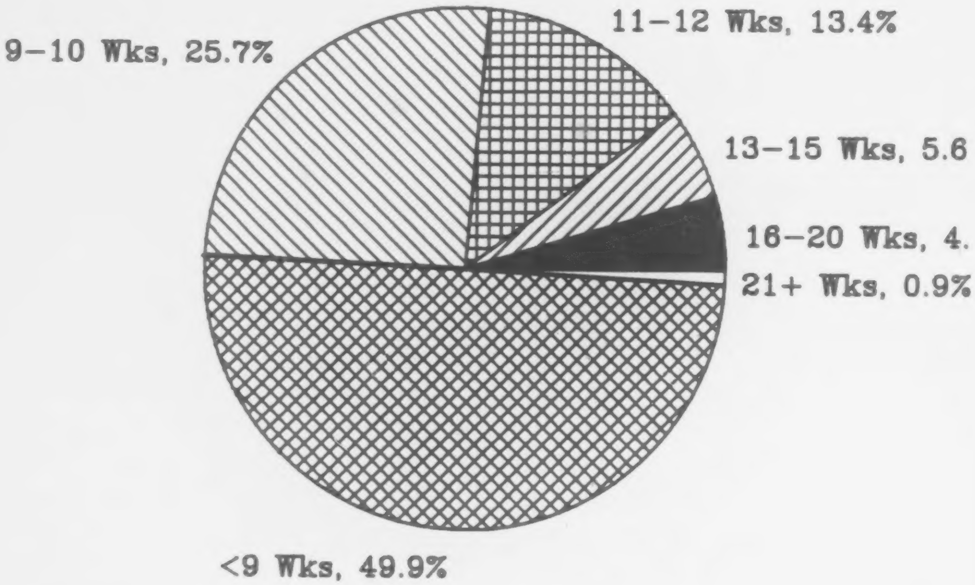

Table 22
PATIENTS REPORTING PRIOR ABORTIONS BY AGE GROUP AND RESIDENCE
MINNESOTA, 1987

Age Group	Total Reported Abortions			Minnesota Resident Abortions		
	Number	Abortions[1]	Percent[2]	Number	Abortions[1]	Percent[2]
TOTAL	17,653	5,859	33.2	15,746	5,397	34.3
<18	1,883	135	7.2	1,648	122	7.4
18-19	2,623	434	16.5	2,306	400	17.3
20-24	6,298	2,172	34.5	5,576	1,983	35.6
25-29	3,671	1,725	47.0	3,339	1,612	48.3
30-34	1,958	938	47.9	1,790	867	48.4
35+	1,183	444	37.5	1,054	403	38.2
Unknown	37	11	29.7	33	10	30.3

[1] Number of women who reported at least one prior abortion.

[2] Percentage of women within each age group who reported having had at least one prior abortion.

FIGURE 3

FIRST VERSUS REPEAT ABORTION RECIPIENTS BY AGE GROUP, MINNESOTA, 1987

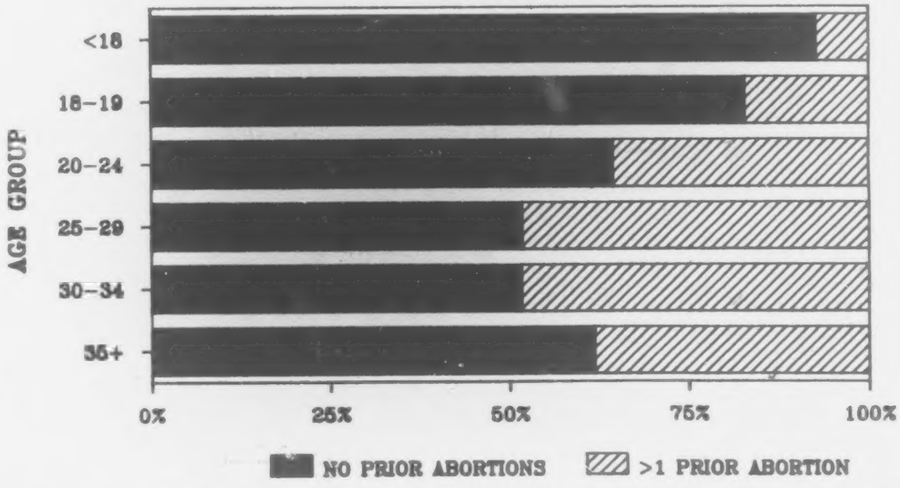

Table 23
REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR ABORTIONS AND RESIDENCE
MINNESOTA, 1987

Number of Prior Abortions	Total Reported Abortions		Minnesota Resident Abortions		Resident Percent of Total
	Number	Percent	Number	Percent	
TOTAL	17,653	100.0	15,746	100.0	89.2
0	11,781	66.7	10,337	65.6	87.7
1	4,130	23.4	3,798	24.1	92.0
2	1,206	6.8	1,102	7.0	91.4
3	356	2.0	335	2.1	94.1
4	113	0.6	109	0.7	96.5
5+	54	0.3	53	0.3	98.1
Unknown	13	0.1	12	0.1	92.3

Table 24
REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR LIVE BIRTHS AND RESIDENCE
MINNESOTA, 1987

	Total Reported Abortions		Minnesota Resident Abortions		
Number of Prior Live Births	Number	Percent	Number	Percent	Resident Percent of Total
TOTAL	17,653	100.0	15,746	100.0	89.2
0	11,083	62.8	9,833	62.4	88.7
1	3,155	17.9	2,892	18.4	91.7
2	2,215	12.5	1,957	12.4	88.4
3	751	4.3	659	4.2	87.7
4	265	1.5	242	1.5	91.3
5	85	0.5	80	0.5	94.1
6	47	0.3	39	0.2	83.0
7	18	0.1	13	0.1	72.2
8+	12	0.1	10	0.1	83.3
Unknown	22	0.1	21	0.1	95.5

Table 25
ABORTION PATIENTS REPORTING PRIOR LIVE BIRTHS BY AGE GROUP AND RESIDENCE
MINNESOTA, 1987

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Prior Live Births[1]	Percent[2]	Number	Prior Live Births[1]	Percent[2]
TOTAL	17,653	6,548	37.1	15,746	5,892	37.4
<18	1,883	93	4.9	1,648	85	5.2
18-19	2,623	334	12.7	2,306	304	13.2
20-24	6,298	1,906	30.3	5,576	1,701	30.5
25-29	3,671	1,955	53.3	3,339	1,765	52.9
30-34	1,958	1,331	68.0	1,790	1,208	67.5
35+	1,183	915	77.3	1,054	817	77.5
Unknown	37	14	37.8	33	12	36.4

---

[1] Number of women who reported at least one prior live birth.

[2] Percentage of women within each age group who reported having had at least one prior live birth.

Table 26
REPORTED RESIDENT INDUCED ABORTIONS BY METHOD BY WEEKS OF GESTATION MINNESOTA, 1987

Method[1]	Reported Resident Abortions	Gestation in Weeks[2] (LMP)				
		<9	9-10	11-12	13-15	16+
Total	15,746	7,863	4,047	2,106	875	855
Vacuum Curettage	14,686	7,851	4,045	2,099	615	76
Dilation & Evacuation	1,055	7	2	7	260	779
Dilation & Curettage	5	5	0	0	0	0
Other[3]	0	0	0	0	0	0

[1] See definitions of methods in definitions section.

[2] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

[3] The "Other" category includes: prostaglandin; saline/fluid exchange; menstrual extraction (-pregnancy); menstrual extraction (+pregnancy); hysterectomy; hysterotomy; and other.

Table 27
REPORTED INDUCED ABORTIONS
BY METHOD BY COMPLICATIONS[1] AND RESIDENCE
MINNESOTA, 1987

	Total Reported Abortions				Minnesota Resident Abortions			
Method[2]	Procedures	Percent	Complications	Rate[3]	Procedures	Percent	Complications	Rate[3]
TOTAL	17,653	100.0	165	9.35	15,746	100.0	155	9.84
Vacuum Curettage	16,345	92.6	157	9.61	14,686	93.3	147	10.01
Dilation & Evacuation	1,303	7.4	8	6.14	1,055	6.7	8	7.58
Dilation & Curettage	5	0.0	0	0.00	5	0.0	0	0.00
Other[4]	0	0.0	0	0.00	0	0.0	0	0.00

---

[1] Reported complications include the categories: hemorrhage (>500 ml), pelvic infection, fever, cervical injury, uterine perforation, retained tissue and other procedure related conditions. In 1982, minor side effects experienced by abortion recipients were for the first time reported as complications. These minor side effects included bleeding (<500 ml), uterine cramping,and elevated temperatures lower than 38 degrees C.

[2] See definitions of methods in definitions section.

[3] Rate is reported complications per 1,000 abortion procedures.

[4] The "Other" category includes: prostaglandin; saline/fluid exchange; menstrual extraction (-pregnancy); menstrual extraction (+pregnancy); hysterectomy, hysterotomy; and other.

Table 28
MARITAL STATUS BY REPORTED CONTRACEPTIVE USE[1]
MINNESOTA RESIDENTS, 1987

		Reported Contraceptive Use[2]							
Marital Status	Reported Resident Abortions	Never Used	Percent[3]	Used in Past but Not Now	Percent[3]	Was Using	Percent[3]	Unknown	Percent[3]
TOTAL	15,746	1,534	9.7	9,613	61.1	4,201	26.7	398	2.5
Never Married	10,911	1,339	12.3	6,643	60.9	2,667	24.4	262	2.4
Currently Married	2,286	126	5.5	1,317	57.6	766	33.5	77	3.4
Other[4] and Unknown	2,549	69	2.7	1,653	64.8	768	30.1	59	2.3

---

[1] These data relative to contraceptive use are subjective as reporting relies on client recall.

[2] Responses given --
Never used - "I've never used any form of birth control."
Used in Past but Not Now - includes responses similar to "I've used some type of birth control but not when I became pregnant" or "I usually use a method of contraception but through human error it was not effective (missed a pill, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)". Please note that when comparing this category to previous years it will be necessary to combine the categories "Discontinued Use" and "Interrupted Use" which were collected and reported separately prior to the 1984 revision of the collection document.
Was Using - "I was using contraception when I became pregnant."

[3] Percent is read horizontally to equal 100%,- i.e., each percent is the proportion of women in that marital status reporting any contraceptive use.

[4] Other includes: Divorced, Separated, and Widowed.

Table 29
REPORTED INDUCED ABORTIONS
BY AGE GROUP BY TYPE OF CONTRACEPTION AT CONCEPTION*
MINNESOTA RESIDENTS, 1987

Contraceptive Type	Reported Resident Abortions	Age Group						
		<18	18-19	20-24	25-29	30-34	35+	Unknown
TOTAL	15,746	1,648	2,306	5,576	3,339	1,790	1,054	33
None	11,545	1,433	1,892	4,090	2,247	1,143	717	23
Condoms	1,214	157	205	390	254	145	60	3
Sponge	697	7	45	290	191	106	56	2
Combination Pills	646	19	84	311	166	52	13	1
Diaphragm	624	1	14	183	203	151	71	1
Foam & Condom	164	4	7	57	49	30	16	1
Foam	154	4	7	44	39	32	28	0
Rhythm	125	3	15	34	26	31	15	1
Suppositories	119	1	4	38	36	23	17	0
Withdrawal	87	12	12	31	11	11	10	0
Intrauterine Device	53	0	0	3	19	18	13	0
Male/Female Sterilization	42	0	1	6	11	9	15	0
Natural Family Planning	36	0	0	12	12	10	2	0
Spermicidal cream/jelly alone	30	0	0	11	10	4	5	0
Mini Pills	13	1	2	5	5	0	0	0
Cervical Cap	9	0	0	1	6	2	0	0
Fertility Awareness	2	0	0	1	0	0	1	0
Injectable	1	0	0	1	0	0	0	0
Other	127	4	10	40	43	19	11	0
Unknown	58	2	8	28	11	4	4	1

---

*These data relative to contraceptive use are subjective as reporting relies on client recall.

Table 30
REPORTED INDUCED ABORTIONS BY AGE GROUP BY CONTRACEPTIVE USE[1] MINNESOTA RESIDENTS, 1987

Age Group	Reported Resident Abortions	Reported Contraceptive Use[2]							
		Never Used	Percent[3]	Used in Past but Not Now	Percent[3]	Was Using	Percent[3]	Unknown	Percent[3]
TOTAL	15,746	1,534	9.7	9,613	61.1	4,201	26.7	398	2.5
<15	74	41	55.4	26	35.1	6	8.1	1	1.4
15-17	1,574	472	30.0	854	54.3	209	13.3	39	2.5
18-19	2,306	376	16.3	1,457	63.2	414	18.0	59	2.6
20-24	5,576	432	7.7	3,523	63.2	1,486	26.6	135	2.4
25-29	3,339	108	3.2	2,068	61.9	1,092	32.7	71	2.1
30-34	1,790	54	3.0	1,032	57.7	647	36.1	57	3.2
35-39	838	31	3.7	499	59.5	278	33.2	30	3.6
40+	216	15	6.9	138	63.9	59	27.3	4	1.9
Unknown	33	5	15.2	16	48.5	10	30.3	2	6.1

[1] These data relative to contraceptive use are subjective as reporting relies on client recall.

[2] Responses given --
Never used - "I've never used any form of birth control."
Used in Past but Not Now - includes responses similar to "I've used some type of birth control but not when I became pregnant" or "I usually use a method of contraception but through human error it was not effective (missed a pill, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)". Please note that when comparing this category to previous years it will be necessary to combine the categories "Discontinued Use" and "Interrupted Use" which were collected and reported separately prior to the 1984 revision of the collection document.
Was Using - "I was using contraception when I became pregnant."

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that age group reporting any contraceptive use.

FIGURE 4

LEVEL OF CONTRACEPTIVE USE BY AGE GROUP OF ABORTION RECIPIENTS, MN, 1987

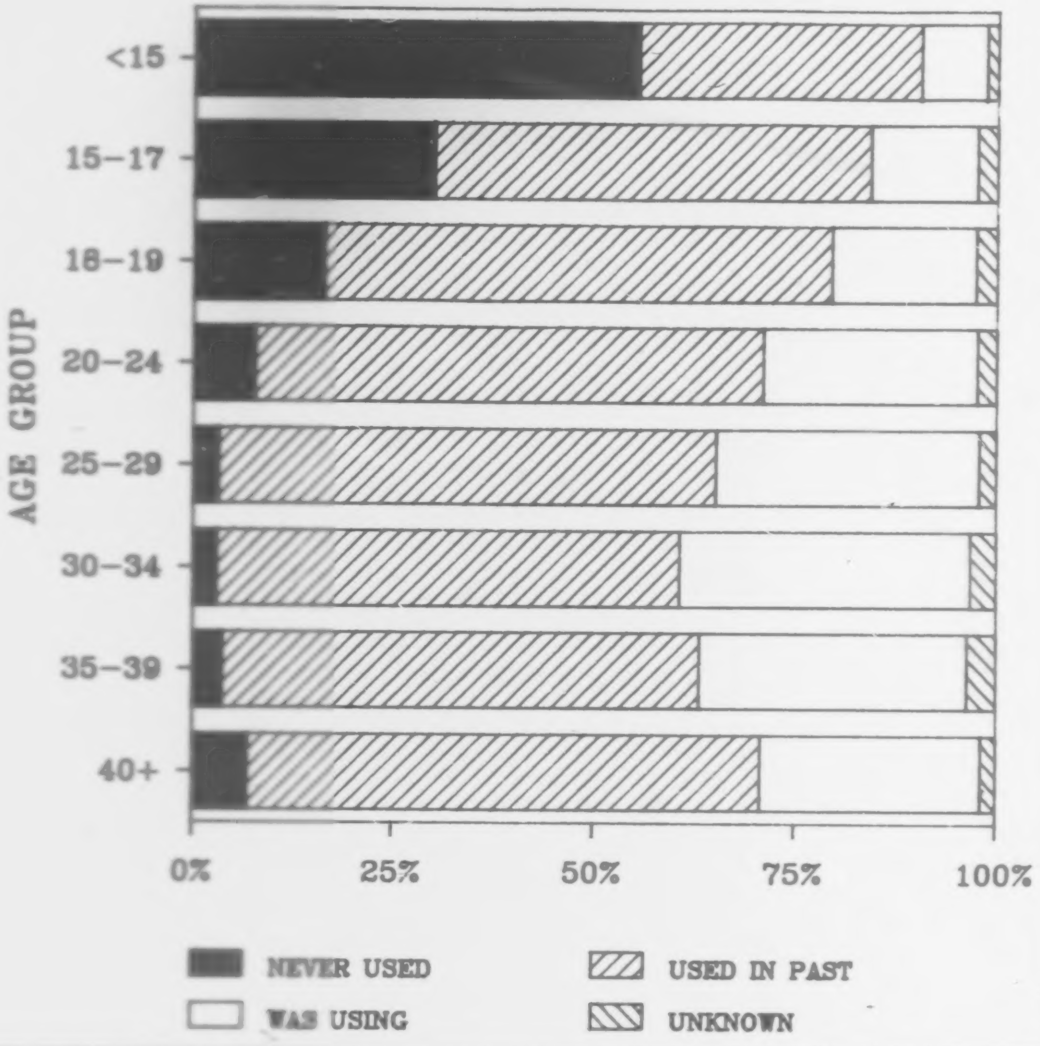

Table 31
REPORTED INDUCED ABORTIONS BY QUARTER AND RESIDENCE MINNESOTA, 1987

Quarter	Total Reported Abortions Number	Total Reported Abortions Percent	Minnesota Resident Abortions Number	Minnesota Resident Abortions Percent	Resident Percent
TOTAL	17,653	100.0	15,746	100.0	89.2
Jan - Mar	4,788	27.1	4,220	26.8	88.1
Apr - June	4,382	24.8	3,931	25.0	89.7
July - Sept	4,298	24.3	3,845	24.4	89.5
Oct - Dec	4,185	23.7	3,750	23.8	89.6

FIGURE 5

REPORTED INDUCED ABORTIONS BY MONTH PERFORMED, MINNESOTA, 1987

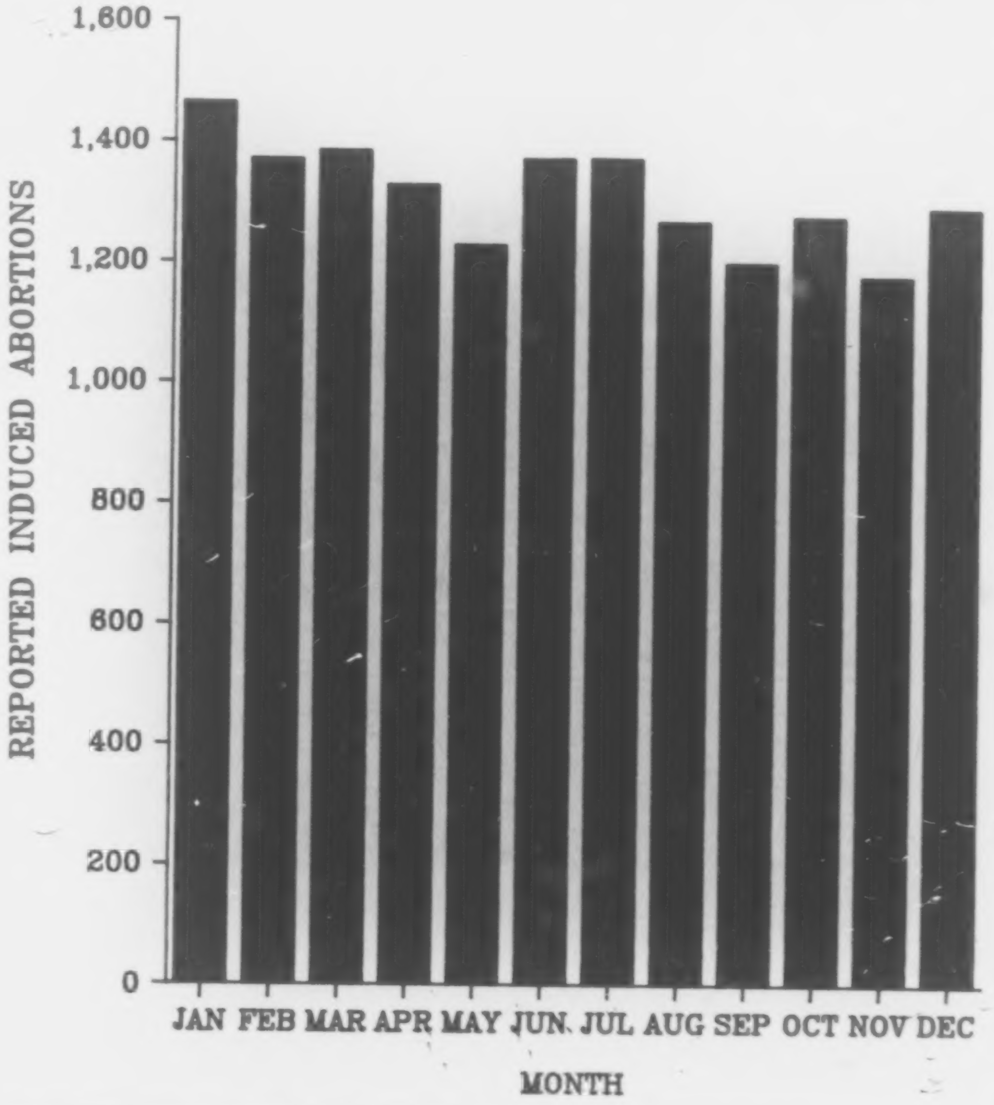

FIGURE 6

REPORTED INDUCED ABORTIONS

MINNESOTA, 1977 - 1987

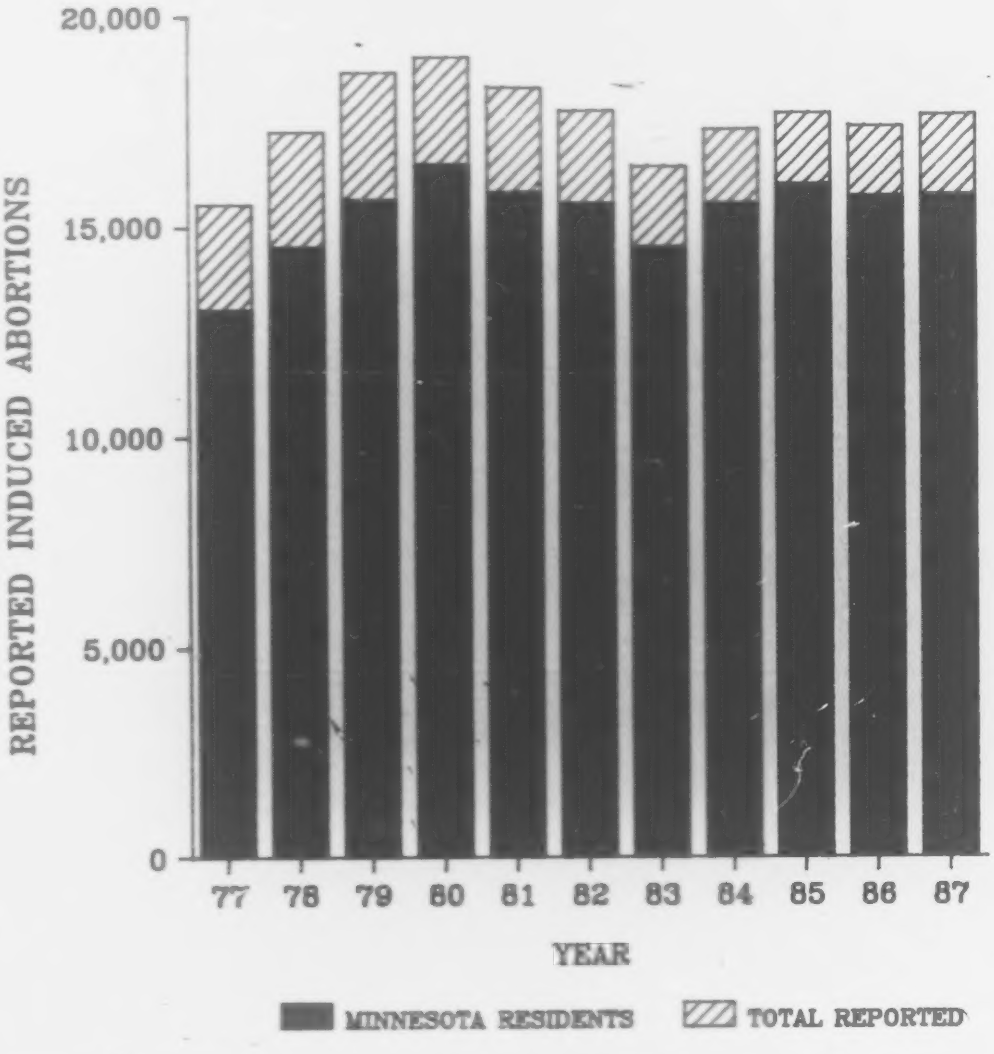

FIGURE 7
REPORTED INDUCED ABORTIONS BY COUNTY
OF RESIDENCE, 1987

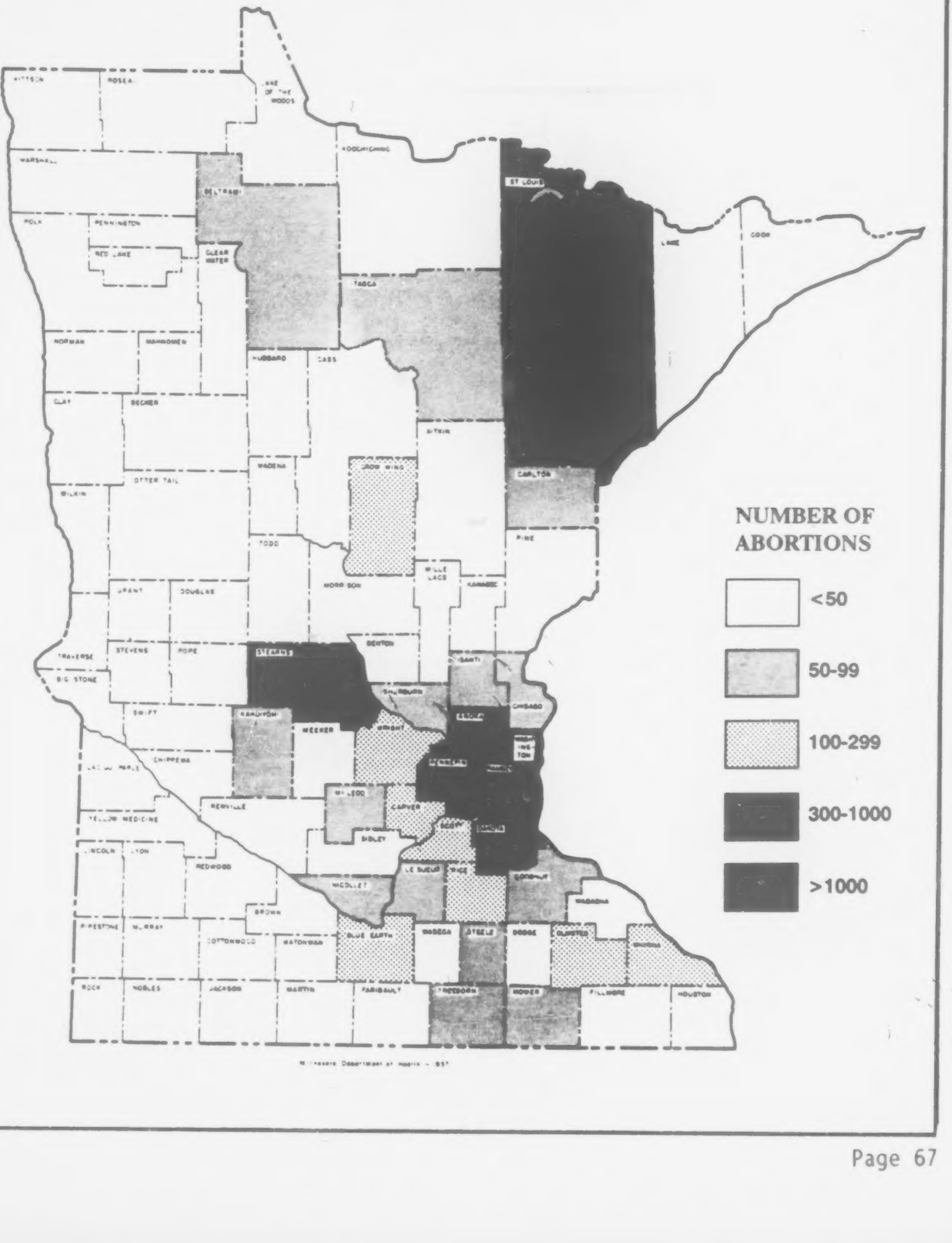
KITTSON
ROSEAU
LAKE OF THE WOODS
MARSHALL
KOOCHICHING
BELTRAMI
ST LOUIS
POLK
PENNINGTON
RED LAKE
CLEAR WATER
LAKE
COOK
ITASCA
NORMAN
MAHNOMEN
HUBBARD
CASS
CLAY
BECKER
AITKIN
WADENA
CROW WING
CARLTON
WILKIN
OTTER TAIL
TODD
PINE
GRANT
DOUGLAS
MORRISON
MILLE LACS
KANABEC
TRAVERSE
STEVENS
POPE
STEARNS
BENTON
ISANTI
BIG STONE
SHERBURNE
CHISAGO
SWIFT
KANDIYOHI
MEEKER
WRIGHT
ANOKA
WASHINGTON
CHIPPEWA
HENNEPIN
RAMSEY
MC LEOD
RENVILLE
CARVER
YELLOW MEDICINE
SCOTT
DAKOTA
SIBLEY
LINCOLN
LYON
REDWOOD
LE SUEUR
RICE
GOODHUE
NICOLLET
WABASHA
BROWN
PIPESTONE
MURRAY
COTTONWOOD
WATONWAN
BLUE EARTH
WASECA
STEELE
DODGE
OLMSTED
WINONA
ROCK
NOBLES
JACKSON
MARTIN
FARIBAULT
FREEBORN
MOWER
FILLMORE
HOUSTON
NUMBER OF ABORTIONS
□ <50
▨ 50-99
▨ 100-299
■ 300-1000
■ >1000

Table 32
REPORTED INDUCED ABORTIONS OCCURRING IN MINNESOTA TO NON-MINNESOTA RESIDENTS BY STATE OR COUNTRY OF RESIDENCE, 1987

State or Foreign Country of Residence	Number	Percent
TOTAL	1,907	100.0
Illinois	9	0.5
Iowa	115	6.0
Michigan	56	2.9
North Dakota	66	3.5
South Dakota	169	8.9
Wisconsin	1,315	69.0
Other U.S. States	44	2.3
Canada	111	5.8
Other Foreign Countries and Unknown	22	1.2

Fertility

Infant Mortality and Fetal Deaths

Table 35
INFANT, NEONATAL AND POSTNEONATAL DEATHS BY CAUSE
MINNESOTA RESIDENTS, 1987

Causes of Death	Infant Deaths	Neonatal Total	Neonatal Under 1 Day	Neonatal 1-6 Days	Neonatal 7-27 Days	Post-neonatal
Total - All Causes	564	335	188	74	73	229
Certain conditions originating in the perinatal period	218	195	127	38	30	23
Selected respiratory conditions of fetus and newborn	55	46	37	4	5	9
Maternal conditions	46	46	41	3	2	-
Respiratory distress syndrome	40	32	7	15	10	8
Short gestation and low birth weight	27	26	23	1	2	1
Fetal and neonatal hemorrhage	6	6	1	3	2	-
Birth trauma	5	5	1	2	2	-
Intrauterine hypoxia and birth asphyxia	4	4	4	-	-	-
Congenital anomalies	162	116	61	29	26	46
Of heart	42	21	2	9	10	21
Of respiratory system	24	22	17	3	2	2
Chromosomal anomalies	21	12	1	4	7	9
Anencephalus and similar anomalies	15	15	14	1	-	-
Of urinary system	12	9	7	2	-	3
Symptoms, signs, and ill-defined conditions	105	6	-	1	5	99
Sudden infant death syndrome	102	6	-	1	5	96
Diseases of the nervous system and sense organs	17	6	-	2	4	11
Diseases of the respiratory system	12	3	-	1	2	9
Pneumonia and influenza	7	1	-	-	1	6
Diseases of the circulatory system	11	3	-	1	2	8
Unintentional injury	11	1	-	-	1	10
Mechanical suffocation	4	-	-	-	-	4
Motor vehicle	2	1	-	-	1	1
Infective and parasitic diseases	11	2	-	2	-	9
Septicemia	4	-	-	-	-	4
Diseases of the digestive system	5	1	-	-	1	4
Endocrine, nutritional, and metabolic diseases and immunity disorders	5	1	-	-	1	4
Neoplasms	3	-	-	-	-	3
Malignant neoplasms	2	-	-	-	-	2
Homicide	2	-	-	-	-	2
Injury undetermined whether unintentionally or purposely inflicted	1	-	-	-	-	1
Diseases of the genitourinary system	1	1	-	-	1	-

Table 36
FETAL DEATHS OF 20 WEEKS AND OVER BY CAUSE AND WEIGHT OF FETUS
MINNESOTA RESIDENTS, 1987

Cause of Death	Total Fetal Deaths	Weight in Grams: 999 or Less	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 to 4,499	4,500 and Over	Weight Unknown
Total - All Causes	404	137	39	26	29	34	20	19	5	2	93
Complications of Placenta, Cord, or Membranes	147	36	14	7	14	16	13	7	4	-	36
Congenital Anomalies	45	20	6	2	1	2	1	-	-	-	13
Anencephalus and Similar Anomalies	(10)	(4)	(1)	(1)	(-)	(1)	(-)	(-)	(-)	(-)	(3)
Hydrocephalus	(6)	(2)	(1)	(1)	(-)	(1)	(-)	(-)	(-)	(-)	(1)
Maternal Conditions Related to Pregnancy	41	28	-	1	1	-	-	-	-	-	11
Maternal Conditions Unrelated to Pregnancy	23	6	4	2	4	-	-	1	-	-	6
Short Gestation and Low Birthweight	14	11	-	-	-	-	-	-	-	-	3
Other Diseases or Conditions Specific to the Perinatal Period	14	6	-	3	1	-	1	-	-	-	3
Syndrome of "Infant of a Diabetic Mother"	8	-	2	2	-	-	-	1	-	1	2
Hypoxia and Birth Asphyxia	7	1	2	1	-	1	-	1	-	-	1
Complications of Labor and Delivery	6	2	-	-	-	1	2	1	-	-	-
Malpresentation of Fetus	(2)	(-)	(-)	(-)	(-)	(-)	(1)	(1)	(-)	(-)	(-)
Other Diseases Not Specific to Perinatal Period	3	-	-	1	1	-	-	-	-	-	1
Slow Fetal Growth and Fetal Malnutrition	2	1	-	-	-	-	-	-	-	-	1
Hemolytic Disease of Fetus	1	1	-	-	-	-	-	-	-	-	-
Ill-defined Conditions Originating in Perinatal Period	93	25	11	7	7	14	3	8	1	1	16

General Mortality

Every day in 1987, residents of Minnesota experienced an average of:

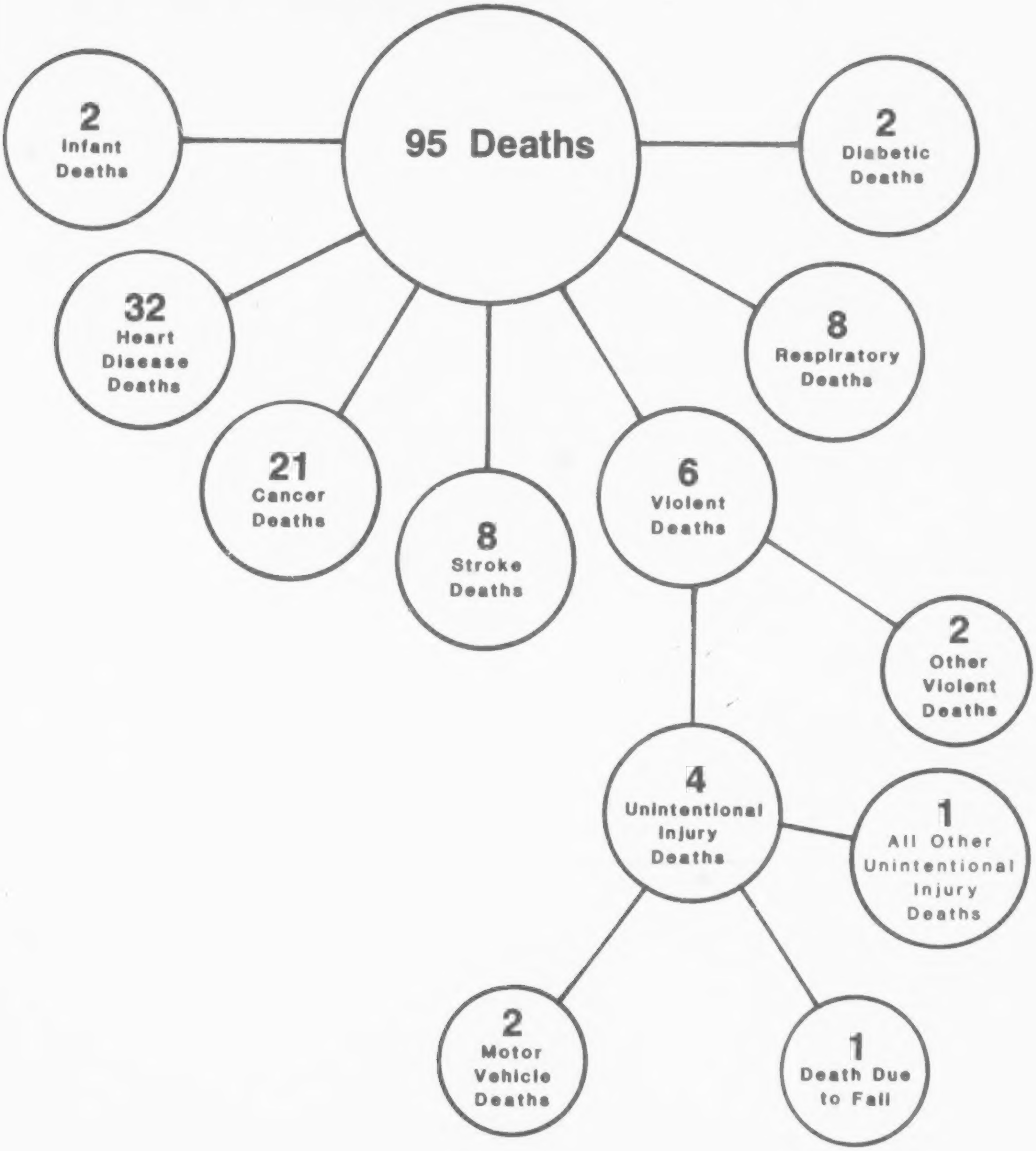
95 Deaths
2 Infant Deaths
2 Diabetic Deaths
32 Heart Disease Deaths
8 Respiratory Deaths
21 Cancer Deaths
8 Stroke Deaths
6 Violent Deaths
2 Other Violent Deaths
4 Unintentional Injury Deaths
1 All Other Unintentional Injury Deaths
2 Motor Vehicle Deaths
1 Death Due to Fall

Table 37
DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH
MINNESOTA, 1987

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
State Total	34,813	27,302	5,831	1,680	5,831	1,379	34,512
Aitkin	116	103	10	3	65	3	171
Anoka	912	609	287	16	281	20	910
Becker	256	214	34	8	22	57	293
Beltrami	285	226	56	3	28	19	273
Benton	148	120	27	1	97	1	218
Big Stone	92	68	13	11	18	8	94
Blue Earth	425	327	86	12	65	5	397
Brown	262	222	39	1	71	3	296
Carlton	269	230	36	3	64	3	297
Carver	215	131	82	2	104	1	236
Cass	146	116	23	7	118	17	251
Chippewa	136	107	29	-	58	1	166
Chisago	202	171	28	3	57	16	244
Clay	231	203	10	18	18	129	350
Clearwater	76	69	6	1	18	9	96
Cook	38	30	4	4	8	2	40
Cottonwood	145	129	15	1	33	15	177
Crow Wing	431	354	72	5	81	16	451
Dakota	743	594	124	25	414	34	1,042
Dodge	69	60	9	-	61	3	124
Douglas	307	258	43	6	36	10	304
Faribault	167	147	14	6	53	7	207
Fillmore	211	175	23	13	61	19	255
Freeborn	344	298	32	14	50	10	358
Goodhue	406	338	53	15	76	9	423
Grant	91	75	15	1	15	5	95
Hennepin	9,088	7,221	1,502	365	560	111	7,892
Minneapolis	4,524	2,867	1,419	238	1,018	45	3,930
Houston	114	102	7	5	6	68	176
Hubbard	159	111	43	5	18	21	150
Isanti	207	165	42	-	53	2	220
Itasca	318	270	45	3	76	7	353
Jackson	92	84	8	-	22	20	126
Kanabec	111	85	26	-	26	1	112
Kandiyohi	405	290	112	3	48	8	346
Kittson	88	75	12	1	7	16	98
Koochiching	122	113	6	3	25	6	144
Lac Qui Parle	97	95	1	1	21	5	121
Lake	120	107	10	3	21	2	130
Lake of the Woods	35	29	4	2	2	3	34
Le Sueur	158	131	25	2	100	2	233
Lincoln	107	82	14	11	9	16	107
Lyon	196	168	26	2	30	20	218
McLeod	311	231	80	-	55	2	288
Mahnomen	53	46	7	-	9	14	69
Marshall	71	64	5	2	39	26	129
Martin	238	211	11	16	26	14	251
Meeker	199	160	38	1	54	9	223
Mille Lacs	219	175	40	4	60	5	240
Morrison	276	247	28	1	60	6	313
Mower	287	262	20	5	99	14	375

Table 37

DEATHS BY COUNTY OF OCCURRENCE DISTRIBUTED ACCORDING TO RESIDENCE: RESIDENT DEATHS DISTRIBUTED ACCORDING TO PLACE OF DEATH, MINNESOTA, 1987 (CONT.)

	Deaths Occurring in County				Resident Deaths		
					Outside County		
County	Total	County Residents	Other Minnesota Residents	Out of State Residents	Within Minnesota	Outside Minnesota	Total
Murray	75	65	8	2	21	14	100
Nicollet	155	116	38	1	60	2	178
Nobles	167	137	25	5	25	19	181
Norman	96	90	6	-	17	28	135
Olmsted	1,532	600	457	475	24	8	632
Otter Tail	463	425	26	12	75	43	543
Pennington	155	115	40	-	8	9	132
Pine	119	102	14	3	101	3	206
Pipestone	101	90	10	1	8	25	123
Polk	348	287	36	25	23	93	403
Pope	137	113	23	1	23	3	139
Ramsey	4,399	3,460	778	161	440	53	3,953
St. Paul	3,393	2,295	950	148	395	33	2,723
Red Lake	24	21	3	-	32	8	61
Redwood	144	115	27	2	58	5	178
Renville	150	136	13	1	72	5	213
Rice	380	330	47	3	69	8	407
Rock	81	64	11	6	4	14	82
Roseau	110	104	3	3	6	30	140
St. Louis	2,368	2,011	174	183	88	33	2,132
Duluth	1,401	968	258	175	76	16	1,060
Scott	305	204	98	3	65	1	270
Sherburne	167	116	47	4	98	1	215
Sibley	103	87	16	-	58	-	145
Stearns	831	529	285	17	103	10	642
Steele	193	176	13	4	66	3	245
Stevens	110	93	14	3	12	2	107
Swift	114	102	12	-	57	2	161
Todd	133	123	8	2	106	4	233
Traverse	59	42	5	12	14	9	65
Wabasha	145	116	12	17	58	11	185
Wadena	234	136	97	1	25	11	172
Waseca	113	95	17	1	49	3	147
Washington	427	345	64	18	278	39	662
Watonwan	141	115	26	-	39	5	159
Wilkin	121	53	3	65	7	10	70
Winona	363	320	16	27	48	29	397
Wright	327	277	47	3	157	7	441
Yellow Medicine	129	94	30	5	37	9	140
Unknown	-	-	-	-	2	-	2

Table 33
TOTAL REPORTED PREGNANCIES BY OUTCOME TYPE AND RATE
MINNESOTA RESIDENTS, 1975-1987

	Outcome Type					
Year	Live Births	Reported[1] Induced Abortions	Fetal[2] Deaths	Total[3] Reported Pregnancies	Female Population Ages 15-44	Pregnancy[4] Rate
1975	56,463	8,924	479	65,866	863,882	76.2
1976	56,599	11,109	487	68,195	886,997	76.9
1977	60,284	13,036	471	73,791	902,754	81.7
1978	61,997	14.521	468	76,986	923,409	83.4
1979	65,325	15,647	445	81,417	947,367	85.9
1980	67,843	16,490	449	84,782	958,773	88.4
1981	68,652	15,821	461	84,934	967,087	87.8
1982	68,512	15,559	429	84,500	977,905	86.4
1983	65,559	14,514	457	80,530	981,287	82.1
1984	66,715	15,556	465	82,736	985,608	83.9
1985	67,412	16,002	439	83,853	994,249	84.3
1986	65,766	15,716	400	81,882	997,501	82.1
1987	65,168	15,746	404	81,318	1,004,801	80.9

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[1] Includes only those reported induced abortions occurring in Minnesota to Minnesota residents
[2] Includes reported fetal deaths of 20 weeks or more gestation
[3] Excludes miscarriages
[4] Number of pregnancies per 1,000 women in the population of ages 15 through 44

Table 38

DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX

MINNESOTA RESIDENTS, 1987

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	34,512	564	86	65	61	243	246	335	322	377	432	590	834	1,399	2,109	2,961	3,969	4,886	5,207	9,826
		M	17,529	319	50	35	43	161	186	248	218	244	267	352	506	876	1,339	1,851	2,336	2,656	2,465	3,377
		F	16,983	245	36	30	18	82	60	87	104	133	165	238	328	523	770	1,110	1,633	2,230	2,742	6,449
001-139	I. INFECTIOUS AND PARASITIC DISEASES	T	400	11	4	1	1	4	6	17	19	18	14	9	11	12	29	29	41	41	38	95
		M	237	6	2	1	-	2	5	14	18	17	13	7	8	7	19	17	32	21	19	29
		F	163	5	2	-	1	2	1	3	1	1	1	2	3	5	10	12	9	20	19	66
001-009	Intestinal Infectious Diseases	T	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3
		M	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
		F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
004	Shigellosis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010-018, 137	Tuberculosis (Including Late Effects Of)	T	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	3	1
		M	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	-
		F	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1
010-012	Respiratory Tuberculosis (Active)	T	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
		M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
013-018	Other Tuberculosis (Active)	T	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1
		M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
137	Late Effects of Tuberculosis	T	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-
		M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
032	Diphtheria	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
033	Whooping Cough	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
034-035	Streptococcal Sore Throat, Scarlatina, and Erysipelas	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	Meningococcal Infection	T	3	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	3	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
037	Tetanus	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
038	Septicemia	T	210	4	-	-	-	1	-	1	-	1	-	3	4	6	19	15	29	28	26	73
		M	99	-	-	-	-	-	-	-	-	1	-	2	2	3	12	9	23	13	13	21
		F	111	4	-	-	-	1	-	1	-	-	-	1	2	3	7	6	6	15	13	52
045	Acute Poliomyelitis	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
055	Measles	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
062-064	Viral Encephalitis (Acute)	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
070	Viral Hepatitis	T	13	-	-	-	-	-	-	1	-	1	-	2	2	-	-	1	3	1	1	1
		M	6	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	1	-	1	1
		F	7	-	-	-	-	-	-	1	-	1	-	-	1	-	-	1	2	1	-	-
090-097	Syphilis	T	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
		M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	Other Infectious and Parasitic Diseases	T	158	6	3	-	1	3	5	15	19	16	14	4	5	6	9	11	7	9	8	17
		M	120	5	1	-	-	2	4	14	18	16	13	3	5	4	6	7	6	5	4	7
		F	38	1	2	-	1	1	1	1	1	-	1	1	-	2	3	4	1	4	4	10

Table 35
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1987

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	33,512	564	86	65	61	293	296	335	332	377	452	590	834	1,399	2,109	2,981	3,864	4,885	5,237	6,826
		M	17,529	319	50	35	43	191	196	248	218	244	287	352	506	876	1,339	1,871	2,238	2,656	2,495	3,377
		F	15,983	245	36	30	18	92	60	87	114	133	165	238	328	523	770	1,110	1,633	2,230	2,742	5,449
140-239	II. NEOPLASMS	T	7,928	3	9	14	7	13	10	35	49	75	138	220	310	585	801	1,052	1,255	1,231	1,021	1,071
		M	4,251	-	6	6	4	8	8	19	21	32	85	92	153	288	447	559	697	648	514	457
		F	3,797	3	3	8	3	5	2	16	28	43	51	128	157	296	354	493	558	583	507	614
140-208	Malignant Neoplasms	T	7,751	2	9	14	6	11	10	33	48	73	129	219	308	532	792	1,031	1,239	1,209	1,005	1,046
		M	3,958	-	6	6	3	7	8	17	20	32	66	89	151	273	441	535	585	639	507	448
		F	3,733	2	3	8	3	6	2	16	28	41	63	130	157	249	351	495	546	570	498	598
140-149	Of Lip, Oral Cavity and Pharynx	T	86	-	-	1	-	-	1	1	-	-	-	-	2	4	15	13	14	15	8	10
		M	54	-	-	-	-	-	1	-	-	-	-	-	2	3	13	12	5	9	5	4
		F	32	-	-	1	-	-	-	1	-	-	-	-	-	1	2	1	9	6	3	6
150-159	Of Digestive Organs and Peritoneum	T	1,999	-	-	-	-	1	1	1	6	15	15	48	70	109	190	287	365	329	292	341
		M	1,005	-	-	-	-	-	1	-	3	10	4	31	41	65	124	180	165	149	131	113
		F	986	-	-	-	-	1	-	1	3	5	11	17	29	42	66	107	130	180	161	228
150	Of Esophagus	T	123	-	-	-	-	-	-	-	-	1	1	3	6	6	16	19	23	24	13	11
		M	88	-	-	-	-	-	-	-	-	1	-	3	4	5	15	12	17	17	3	6
		F	35	-	-	-	-	-	-	-	-	-	1	-	2	1	1	7	6	7	4	5
151	Of Stomach	T	230	-	-	-	-	-	-	-	1	3	1	10	8	10	17	26	39	31	39	45
		M	132	-	-	-	-	-	-	-	-	3	1	7	6	4	12	17	25	16	21	20
		F	98	-	-	-	-	-	-	-	1	-	-	3	2	6	5	9	14	15	18	25
152	Of Small Intestine, Including Duodenum	T	23	-	-	-	-	-	-	-	-	-	2	-	-	2	1	1	5	6	2	4
		M	14	-	-	-	-	-	-	-	-	-	2	-	-	2	1	1	4	2	2	-
		F	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	-	4
153	Of Colon	T	795	-	-	-	-	1	-	-	4	6	7	18	26	48	63	110	115	137	108	152
		M	374	-	-	-	-	-	-	-	3	3	2	12	13	30	33	62	59	61	48	48
		F	421	-	-	-	-	1	-	-	1	3	5	6	13	18	30	48	56	76	60	104
154	Of Rectum, Rectosigmoid Junction and Anus	T	133	-	-	-	-	-	-	-	-	2	2	-	3	4	16	23	21	13	18	31
		M	69	-	-	-	-	-	-	-	-	1	-	-	2	3	11	12	11	8	14	7
		F	64	-	-	-	-	-	-	-	-	1	2	-	1	1	5	11	10	5	4	24
160-165	Of Respiratory System	T	1,850	-	-	-	-	-	-	-	3	6	18	55	92	186	241	317	354	271	194	101
		M	1,239	-	-	-	-	-	-	-	-	4	10	28	57	127	161	218	243	191	128	67
		F	602	-	-	-	-	-	-	-	3	2	8	27	33	59	80	99	111	80	66	34
162	Of Trachea, Bronchus and Lung	T	1,777	-	-	-	-	-	-	-	3	6	17	52	90	183	234	310	344	258	186	94
		M	1,190	-	-	-	-	-	-	-	-	4	10	27	57	124	155	211	237	182	121	62
		F	587	-	-	-	-	-	-	-	3	2	7	25	33	59	79	99	107	76	65	32
170-175	Of Bone, Connective Tissue, Skin and Breast	T	902	-	-	3	-	3	3	7	10	18	39	48	60	80	99	111	110	110	91	110
		M	103	-	-	3	-	2	2	2	2	2	3	8	7	12	15	13	7	10	5	10
		F	799	-	-	-	-	1	1	5	8	16	36	40	53	68	84	98	103	100	86	100
172-173	Of Skin	T	114	-	-	-	-	1	-	2	2	3	7	8	8	13	15	14	10	11	10	10
		M	72	-	-	-	-	-	-	1	2	2	3	7	5	11	9	10	6	8	2	6
		F	42	-	-	-	-	1	-	1	-	1	4	1	3	2	6	4	4	3	8	4
174-175	Of Breast	T	724	-	-	-	-	-	1	3	8	14	31	36	46	66	76	86	94	92	74	95
		M	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1
		F	721	-	-	-	-	-	1	3	8	14	31	36	46	66	76	86	93	92	73	94
179-189	Of Genitourinary Organs	T	1,273	-	-	2	-	-	-	5	4	7	13	29	23	53	97	139	220	247	186	256
		M	750	-	-	-	-	-	-	2	1	-	3	4	8	19	42	77	131	157	135	171
		F	523	-	-	2	-	-	-	3	3	7	10	25	15	34	55	57	89	90	51	87
179-182	Of Uterus, Cervix and Placenta	T	147	-	-	-	-	-	-	1	1	2	5	6	5	9	16	12	33	21	12	22
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	147	-	-	-	-	-	-	1	1	2	5	6	5	9	16	12	33	21	12	22
185	Of Prostate	T	528	-	-	-	-	-	-	1	-	-	-	-	2	7	21	54	92	115	100	136
		M	528	-	-	-	-	-	-	1	-	-	-	-	2	7	21	54	92	115	100	136
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
190-199	Of Other and Unspecified Sites	T	754	1	2	6	3	2	3	4	10	13	10	20	34	51	79	108	110	106	86	107
		M	372	-	2	2	1	2	3	2	4	8	4	10	20	27	40	62	61	51	35	38
		F	382	1	-	4	2	-	-	2	6	5	6	10	14	24	39	46	49	54	51	69
191-192	Of Brain and Other Parts of Central Nervous System	T	176	-	1	6	3	-	3	2	6	9	4	9	15	11	22	24	23	23	12	3
		M	90	-	1	2	1	-	3	2	1	7	1	5	9	4	8	13	15	11	5	2
		F	86	-	-	4	2	-	-	-	5	2	3	4	6	7	14	11	8	12	7	1

Table 38

DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1987

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	34,512	564	86	65	61	243	246	335	322	377	432	590	834	1,399	2,109	2,961	3,969	4,886	5,207	9,826
		M	17,529	319	50	35	43	161	186	248	218	244	267	352	506	876	1,339	1,851	2,336	2,656	2,465	3,377
		F	16,983	245	36	30	18	82	60	87	104	133	165	238	328	523	770	1,110	1,633	2,230	2,742	6,449
200-208	Of Lymphatic and Hematopoietic Tissue	T	858	1	7	2	3	5	2	15	15	14	25	19	29	40	72	93	120	132	145	119
		M	450	-	4	1	2	3	1	11	10	8	16	8	16	25	46	44	70	72	68	45
		F	408	1	3	1	1	2	1	4	5	6	9	11	13	15	26	49	50	60	77	74
201	Hodgkin's Disease	T	35	-	-	-	-	-	1	6	2	2	3	-	1	1	3	4	4	2	2	4
		M	20	-	-	-	-	-	-	4	2	2	3	-	1	1	3	1	2	1	-	-
		F	15	-	-	-	-	-	1	2	-	-	-	-	-	-	-	3	2	1	2	4
204-208	Leukemia	T	334	1	7	2	3	4	1	7	9	7	11	10	8	18	20	30	45	46	52	53
		M	189	-	4	1	2	2	1	5	5	3	8	3	4	8	16	12	30	32	30	23
		F	145	1	3	1	1	2	-	2	4	4	3	7	4	10	4	18	15	14	22	30
210-239	Benign Neoplasms and Neoplasms of Uncertain Behavior	T	127	1	-	-	1	2	-	2	1	2	2	6	2	4	9	11	21	22	16	25
		M	63	-	-	-	1	1	-	2	1	-	1	3	2	1	6	8	12	9	7	9
		F	64	1	-	-	-	1	-	-	-	2	1	3	-	3	3	3	9	13	9	16
240-279 III.	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES AND IMMUNITY DISORDERS	T	833	5	5	2	-	2	4	4	8	20	10	14	16	43	56	64	99	118	126	237
		M	355	5	-	-	-	1	3	2	5	10	8	8	8	21	34	34	43	59	43	71
		F	478	-	5	2	-	1	1	2	3	10	2	6	8	22	22	30	56	59	83	166
250	Diabetes Mellitus	T	587	-	1	-	-	-	1	3	1	16	5	9	12	31	46	53	77	104	88	140
		M	247	-	-	-	-	-	1	2	-	7	3	6	5	12	27	26	35	52	29	42
		F	340	-	1	-	-	-	-	1	1	9	2	3	7	19	19	27	42	52	59	98
260-269	Nutritional Deficiencies	T	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	17	55
		M	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	5	15
		F	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	12	40
Remainder	(240-249, 251-259, 270-279)	T	167	5	4	2	-	2	3	1	7	4	5	5	4	12	10	10	19	11	21	42
		M	85	5	-	-	-	1	2	-	5	3	5	2	3	9	7	7	7	6	9	14
		F	82	-	4	2	-	1	1	1	2	1	-	3	1	3	3	3	12	5	12	28
280-289 IV.	DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	T	159	-	1	-	1	-	-	2	3	1	2	2	2	2	10	7	17	28	26	55
		M	71	-	-	-	1	-	-	1	2	1	2	1	1	2	7	4	10	17	10	12
		F	88	-	1	-	-	-	-	1	1	-	-	1	1	-	3	3	7	11	16	43
280-285	Anemias	T	84	-	1	-	1	-	-	-	3	-	1	-	-	-	2	2	9	15	10	40
		M	36	-	-	-	1	-	-	-	2	-	1	-	-	-	2	1	6	9	5	9
		F	48	-	1	-	-	-	-	-	1	-	-	-	-	-	-	1	3	6	5	31
Remainder	(286-289)	T	75	-	-	-	-	-	-	2	-	1	1	2	2	2	8	5	8	13	16	15
		M	35	-	-	-	-	-	-	1	-	1	1	1	1	2	5	3	4	8	5	3
		F	40	-	-	-	-	-	-	1	-	-	-	1	1	-	3	2	4	5	11	12
290-319 V.	MENTAL DISORDERS	T	592	-	-	-	-	-	1	2	2	9	6	6	16	14	10	32	23	48	91	332
		M	245	-	-	-	-	-	1	1	2	7	6	6	12	10	8	24	15	23	50	80
		F	347	-	-	-	-	-	-	1	-	2	-	-	4	4	2	8	8	25	41	252
320-389 VI.	DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	T	758	17	6	6	1	2	5	4	8	8	5	7	14	22	34	63	91	115	151	199
		M	372	11	4	5	1	2	4	4	5	4	2	4	9	11	23	33	50	55	66	79
		F	386	6	2	1	-	-	1	-	3	4	3	3	5	11	11	30	41	60	85	120
320-322	Meningitis (Excludes Infective Meningitis)	T	14	5	1	-	-	-	-	1	2	-	-	-	-	-	1	1	1	1	1	-
		M	6	2	-	-	-	-	-	1	1	-	-	-	-	-	1	1	-	-	-	-
		F	8	3	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-
332	Parkinson's Disease	T	184	-	-	-	-	-	-	-	-	-	-	-	1	1	2	10	21	39	48	62
		M	96	-	-	-	-	-	-	-	-	-	-	-	1	1	1	5	13	23	23	29
		F	88	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	8	16	25	33
340	Multiple Sclerosis	T	42	-	-	-	-	-	-	-	1	5	1	3	5	3	9	6	6	3	-	-
		M	17	-	-	-	-	-	-	-	1	2	-	1	2	2	6	-	2	1	-	-
		F	25	-	-	-	-	-	-	-	-	3	1	2	3	1	3	6	4	2	-	-
Remainder	(323-331, 333-339, 341-389)	T	518	12	5	6	1	2	5	3	5	3	4	4	8	18	22	46	63	72	102	137
		M	253	9	4	5	1	2	4	3	3	2	2	3	6	8	15	27	35	31	43	50
		F	265	3	1	1	-	-	1	-	2	1	2	1	2	10	7	19	28	41	59	87

Table 38

DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1987

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	34,512	564	86	65	61	243	246	335	322	377	432	590	834	1,399	2,109	2,961	3,969	4,886	5,207	9,826
		M	17,529	319	50	35	43	161	186	248	218	244	267	352	506	876	1,339	1,851	2,336	2,656	2,465	3,377
		F	16,983	245	36	30	18	82	60	87	104	133	165	238	328	523	770	1,110	1,633	2,230	2,742	6,449
390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	T	15,806	11	3	2	4	13	6	22	30	70	112	187	293	533	823	1,200	1,735	2,364	2,700	5,698
		M	7,748	9	2	1	3	11	5	15	18	50	77	140	207	395	582	803	1,067	1,285	1,205	1,833
		F	8,058	2	1	1	1	2	1	7	12	20	35	47	86	138	241	397	668	1,079	1,495	3,865
390-398, 402, 404-429	Diseases of the Heart	T	11,830	10	3	2	2	7	4	15	21	57	93	157	247	452	703	1,014	1,373	1,790	1,956	3,924
		M	6,144	9	2	1	2	6	3	10	12	46	69	126	178	345	501	692	867	1,011	943	1,321
		F	5,686	1	1	1	-	1	1	5	9	11	24	31	69	107	202	322	506	779	1,013	2,603
390-398	Acute Rheumatic Fever and Chronic Rheumatic Heart Disease	T	128	1	-	-	-	-	-	-	2	-	1	-	3	8	11	10	11	24	27	30
		M	37	1	-	-	-	-	-	-	1	-	1	-	1	4	3	2	3	7	8	6
		F	91	-	-	-	-	-	-	-	1	-	-	-	2	4	8	8	8	17	19	24
402, 404	Hypertensive Heart With or Without Renal Disease	T	184	-	-	-	-	-	-	-	-	-	2	-	3	3	4	11	21	31	40	69
		M	66	-	-	-	-	-	-	-	-	-	2	-	3	2	2	8	13	14	10	12
		F	118	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	8	17	30	57
410-414	Ischemic Heart Disease	T	8,225	-	-	-	1	2	-	5	13	38	60	126	194	344	542	766	1,023	1,247	1,362	2,502
		M	4,483	-	-	-	1	2	-	3	8	33	46	107	144	274	401	539	661	728	680	856
		F	3,742	-	-	-	-	-	-	2	5	5	14	19	50	70	141	227	362	519	682	1,646
410	Acute Myocardial Infarction	T	3,792	-	-	-	1	-	-	3	6	13	33	74	108	186	280	425	529	644	646	844
		M	2,179	-	-	-	1	-	-	2	4	10	21	61	86	151	205	299	326	370	324	319
		F	1,613	-	-	-	-	-	-	1	2	3	12	13	22	35	75	126	203	274	322	525
411	Other Acute and Subacute Forms	T	34	-	-	-	-	-	-	-	-	-	-	1	-	-	4	5	2	5	6	11
		M	18	-	-	-	-	-	-	-	-	-	-	1	-	-	3	4	1	2	3	4
		F	16	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3	3	7
412	Old Myocardial Infarction	T	20	-	-	-	-	1	-	-	-	-	-	-	-	2	2	3	1	3	3	5
		M	15	-	-	-	-	1	-	-	-	-	-	-	-	2	2	2	1	2	2	3
		F	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	2
413	Angina Pectoris	T	24	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	7	5	9
		M	4	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	1
		F	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	6	5	8
414	Chronic Ischemic Heart Disease	T	4,355	-	-	-	-	1	-	2	7	25	27	51	86	156	254	332	491	588	702	1,633
		M	2,287	-	-	-	-	1	-	1	4	23	25	45	58	121	189	234	333	353	351	529
		F	2,088	-	-	-	-	-	-	1	3	2	2	6	28	35	65	98	158	235	351	1,104
415-416	Pulmonary Heart Disease	T	218	2	-	-	-	-	-	1	1	3	4	6	10	13	13	17	28	37	34	49
		M	102	2	-	-	-	-	-	1	-	2	1	1	7	9	5	10	14	22	11	17
		F	116	-	-	-	-	-	-	-	1	1	3	5	3	4	8	7	14	15	23	32
420-429	Other Forms of Heart Disease	T	3,074	7	3	2	1	5	4	9	5	16	26	25	37	84	133	210	290	451	492	1,274
		M	1,455	6	2	1	1	4	3	6	3	11	19	18	23	56	90	133	176	240	233	430
		F	1,619	1	1	1	-	1	1	3	2	5	7	7	14	28	43	77	114	211	259	844
401, 403	Hypertensive Disease (Without Mention of Heart Disease)	T	209	-	-	-	-	-	-	-	-	1	1	-	1	6	13	14	29	34	40	70
		M	81	-	-	-	-	-	-	-	-	1	1	-	-	4	9	6	15	19	16	10
		F	128	-	-	-	-	-	-	-	-	-	-	-	1	2	4	8	14	15	24	60
430-438	Cerebrovascular Disease	T	2,884	1	-	-	2	5	2	5	7	10	16	20	32	56	76	121	241	403	572	1,315
		M	1,108	-	-	-	1	4	2	4	5	2	6	8	18	31	46	74	126	185	222	374
		F	1,776	1	-	-	1	1	-	1	2	8	10	12	14	25	30	47	115	218	350	941
431	Cerebral Hemorrhage	T	268	1	-	-	2	-	-	1	-	4	7	6	5	12	19	24	25	42	65	55
		M	107	-	-	-	1	-	-	-	-	2	1	2	3	6	11	13	14	16	25	13
		F	161	1	-	-	1	-	-	1	-	2	6	4	2	6	8	11	11	26	40	42
434	Occlusion of Cerebral Arteries	T	325	-	-	-	-	1	-	-	-	1	3	1	2	10	8	15	28	45	60	151
		M	127	-	-	-	-	1	-	-	-	-	2	-	2	3	3	8	17	27	24	40
		F	198	-	-	-	-	-	-	-	-	1	1	1	-	7	5	7	11	18	36	111
440-448	Diseases of the Arteries, Arterioles and Capillaries	T	825	-	-	-	-	1	-	1	2	2	2	8	9	17	27	48	82	128	120	378
		M	385	-	-	-	-	1	-	-	1	1	1	5	9	13	22	30	52	66	59	125
		F	440	-	-	-	-	-	-	1	1	1	1	3	-	4	5	18	30	62	61	253
440	Arteriosclerosis	T	410	-	-	-	-	-	-	-	-	1	-	1	3	2	4	3	30	50	63	253
		M	158	-	-	-	-	-	-	-	-	1	-	1	3	1	3	-	19	24	32	74
		F	252	-	-	-	-	-	-	-	-	-	-	-	-	1	1	3	11	26	31	179
451-459	Diseases of Veins and Lymphatics and Other Diseases of Circulatory System	T	58	-	-	-	-	-	-	1	-	-	-	2	4	2	4	3	10	9	12	11
		M	30	-	-	-	-	-	-	1	-	-	-	1	2	2	4	1	7	4	5	3
		F	28	-	-	-	-	-	-	-	-	-	-	1	2	-	-	2	3	5	7	8

Table 38
DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1987

9th Revi-sion No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	34,512	564	86	65	61	243	246	335	322	377	432	590	834	1,399	2,109	2,961	3,969	4,886	5,207	8,826
		M	17,529	319	50	35	43	161	186	248	218	244	267	352	506	876	1,339	1,851	2,336	2,656	2,465	3,377
		F	16,983	245	36	30	18	82	60	87	104	133	165	238	328	523	770	1,110	1,633	2,230	2,742	5,449
451	Phlebitis and	T	15	-	-	-	-	-	-	1	-	-	-	-	2	-	1	1	3	1	3	3
	Thrombophlebitis	M	9	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	3	1	1	1
		F	6	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	2
460-	VIII. DISEASES OF THE	T	2,947	12	2	1	3	4	1	5	5	9	12	15	29	73	129	209	362	479	539	1,058
519	RESPIRATORY SYSTEM	M	1,618	9	-	-	1	2	-	1	1	2	6	11	18	42	79	157	233	289	303	464
		F	1,329	3	2	1	2	2	1	4	4	7	6	4	11	31	50	52	129	190	236	594
466	Acute Bronchitis and	T	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1
	Bronchiolitis	M	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
		F	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1
480-	Pneumonia and	T	1,308	7	-	-	1	1	1	1	2	6	7	6	7	15	27	46	91	157	250	683
487	Influenza	M	622	4	-	-	1	-	-	-	-	2	4	4	5	9	12	35	61	92	124	269
		F	686	3	-	-	-	1	1	1	2	4	3	2	2	6	15	11	30	65	126	414
480-	Pneumonia	T	1,296	7	-	-	1	1	-	1	2	6	7	6	7	14	27	46	90	155	246	680
486		M	615	4	-	-	1	-	-	-	-	2	4	4	5	8	12	35	61	91	122	266
		F	681	3	-	-	-	1	-	1	2	4	3	2	2	6	15	11	29	64	124	414
487	Influenza	T	12	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1	2	4	3
		M	7	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	3
		F	5	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	2	-
490-	Bronchitis, Chronic	T	58	-	1	-	-	-	-	-	-	-	-	-	-	-	5	1	5	13	8	25
491	and Unspecified	M	28	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	4	8	6	7
		F	30	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-	1	5	2	18
492	Emphysema	T	169	-	-	-	-	-	-	-	-	-	1	-	3	8	12	24	31	42	20	28
		M	117	-	-	-	-	-	-	-	-	-	-	-	2	5	12	16	21	31	14	16
		F	52	-	-	-	-	-	-	-	-	-	1	-	1	3	-	8	10	11	6	12
493	Asthma	T	88	-	1	-	1	3	-	4	1	-	1	2	3	2	3	5	16	15	14	17
		M	33	-	-	-	-	2	-	1	1	-	-	-	-	-	3	2	10	4	3	7
		F	55	-	1	-	1	1	-	3	-	-	1	2	3	2	-	3	6	11	11	10
Re-	(460-465, 467-	T	1,320	5	-	1	1	-	-	-	2	3	3	7	16	48	82	132	218	252	246	304
sid-	479, 494-519)	M	817	5	-	-	-	-	-	-	-	-	2	7	11	28	50	102	137	154	156	165
ual		F	503	-	-	1	1	-	-	-	2	3	1	-	5	20	32	30	81	98	90	139
520-	IX. DISEASES OF THE	T	1,120	5	2	1	-	1	1	3	10	21	29	23	40	67	79	103	135	147	159	294
579	DIGESTIVE SYSTEM	M	543	4	1	1	-	1	1	1	7	18	22	18	22	31	39	64	78	83	66	86
		F	577	1	1	-	-	-	-	2	3	3	7	5	18	36	40	39	57	64	93	208
531-	Ulcer of the Stomach	T	110	-	-	1	-	-	-	-	-	-	1	2	4	-	5	3	15	15	28	36
533	and Duodenum	M	53	-	-	1	-	-	-	-	-	-	-	1	4	-	4	2	10	9	11	11
		F	57	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	5	6	17	25
540-	Appendicitis	T	4	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	1	-
543		M	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
		F	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
550-	Hernia and Other	T	93	1	-	-	-	-	-	-	1	1	-	-	-	-	4	3	8	14	14	47
553,	Obstruction	M	33	1	-	-	-	-	-	-	1	1	-	-	-	-	-	2	1	5	8	14
560		F	60	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	7	9	6	33
571	Chronic Liver Disease	T	312	-	-	-	-	-	1	1	9	12	21	14	27	45	38	45	31	37	20	11
	and Cirrhosis	M	191	-	-	-	-	-	1	-	6	11	18	11	13	20	19	31	25	23	10	3
		F	121	-	-	-	-	-	-	1	3	1	3	3	14	25	19	14	6	14	10	8
574-	Cholelithiasis and Other	T	76	-	-	-	-	-	-	-	-	-	-	2	-	1	-	6	8	11	14	34
576	Disorders of Gallbladder	M	38	-	-	-	-	-	-	-	-	-	-	2	-	1	-	4	6	8	8	9
	and Biliary Tract	F	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	6	25
Re-	(520-530, 534-539,	T	525	4	2	-	-	1	-	2	-	8	7	5	8	21	31	46	73	69	82	166
sid-	544-549, 554-559,	M	226	3	1	-	-	1	-	1	-	6	4	4	5	10	15	25	36	37	29	49
ual	561-570, 572-573, 577-579)	F	299	1	1	-	-	-	-	1	-	2	3	1	3	11	16	21	37	32	53	117

Table 38

DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1987

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	34,512	564	86	65	61	243	246	335	322	377	432	590	834	1,399	2,109	2,961	3,969	4,886	5,207	9,826
		M	17,529	319	50	35	43	161	186	248	218	244	267	352	506	876	1,339	1,851	2,336	2,656	2,465	3,377
		F	16,983	245	36	30	18	82	60	87	104	133	165	238	328	523	770	1,110	1,633	2,230	2,742	6,449
580-629 X.	DISEASES OF THE GENITOURINARY SYSTEM	T	535	1	-	-	-	-	-	1	5	-	2	4	4	13	8	40	46	77	101	233
		M	249	1	-	-	-	-	-	1	-	-	2	2	3	8	3	24	25	37	44	99
		F	286	-	-	-	-	-	-	-	5	-	-	2	1	5	5	16	21	40	57	134
580-589	Nephritis, Nephrotic Syndrome and Nephrosis	T	302	1	-	-	-	-	-	1	5	-	2	3	3	10	4	22	30	41	53	127
		M	162	1	-	-	-	-	-	1	-	-	2	2	3	5	2	16	19	19	25	67
		F	140	-	-	-	-	-	-	-	5	-	-	1	-	5	2	6	11	22	28	60
590	Infections of the Kidney	T	23	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	3	5	5	8
		M	7	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	3	-	2
		F	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	5	6
600	Hyperplasia of the Prostate	T	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4
		M	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	(591-599, 601-629)	T	204	-	-	-	-	-	-	-	-	-	-	1	1	2	4	17	13	31	41	94
		M	74	-	-	-	-	-	-	-	-	-	-	-	-	2	1	8	5	15	17	26
		F	130	-	-	-	-	-	-	-	-	-	-	1	1	-	3	9	8	16	24	68
630-676 XI.	COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	T	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
630-639	Pregnancy with Abortive Outcome	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
640-648	Complications of Pregnancy	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residual	(649-676)	T	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
680-709 XII.	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	T	49	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	3	3	10	24
		M	15	-	-	-	-	-	-	-	-	-	-	-	-	1	4	1	-	-	3	6
		F	34	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	3	7	18
710-739 XIII.	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	T	142	-	-	-	-	-	1	1	1	-	1	5	8	3	9	9	16	20	16	52
		M	30	-	-	-	-	-	1	-	-	-	1	1	3	-	4	2	4	4	1	9
		F	112	-	-	-	-	-	-	1	1	-	-	4	5	3	5	7	12	16	15	43
740-759 XIV.	CONGENITAL ANOMALIES	T	223	162	7	5	1	10	2	5	2	2	1	4	2	2	4	1	2	7	1	3
		M	113	78	6	4	1	6	2	1	1	2	1	2	1	-	2	-	1	4	-	1
		F	110	84	1	1	-	4	-	4	1	-	-	2	1	2	2	1	1	3	1	2
760-779 XV.	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	T	218	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	125	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	93	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780-799 XVI.	SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS	T	722	105	3	-	-	1	6	9	13	3	6	8	11	15	29	44	52	89	92	236
		M	337	61	3	-	-	1	3	8	9	3	2	4	8	10	22	28	29	47	33	66
		F	385	44	-	-	-	-	3	1	4	-	4	4	3	5	7	16	23	42	59	170
E800-E999 XVII.	INJURY AND POISONING	T	2,179	14	44	33	43	193	203	225	166	141	106	86	78	73	83	105	92	119	136	239
		M	1,440	10	26	17	32	127	153	180	129	98	80	56	53	58	66	66	52	84	68	85
		F	739	4	18	16	11	66	50	45	37	43	26	30	25	15	17	39	40	35	68	154
E800-E949	Unintentional Injury—Total	T	1,467	11	41	32	33	123	119	129	85	72	64	45	42	48	50	67	69	94	119	224
		M	910	7	25	17	24	78	94	105	68	53	48	27	29	37	38	36	35	62	55	72
		F	557	4	16	15	9	45	25	24	17	19	16	18	13	11	12	31	34	32	64	152

Table 38

DEATHS FROM SELECTED CAUSES BY AGE GROUP AND SEX
MINNESOTA RESIDENTS, 1987

9th Revision No.	Cause of Death and Sex		Total	Under 1 Year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 and Over
	ALL CAUSES, Total	T	34,512	564	86	65	61	243	246	335	322	377	432	590	834	1,399	2,109	2,961	3,969	4,886	5,207	9,826
		M	17,529	319	50	35	43	161	186	248	218	244	267	352	506	876	1,339	1,851	2,336	2,656	2,465	3,377
		F	16,983	245	36	30	18	82	60	87	104	133	165	238	328	523	770	1,110	1,633	2,230	2,742	6,449
E810-E825	Motor Vehicle	T	593	2	15	23	17	104	78	83	44	36	27	22	21	16	12	25	16	26	17	9
		M	378	1	7	12	10	62	59	63	32	25	18	11	12	12	8	10	6	19	7	4
		F	215	1	8	11	7	42	19	20	12	11	9	11	9	4	4	15	10	7	10	5
E880-E888	Falls	T	332	1	2	-	-	1	4	3	6	4	6	5	6	5	10	13	20	36	61	149
		M	158	1	2	-	-	1	3	3	4	4	5	5	4	4	8	9	10	22	26	47
		F	174	-	-	-	-	-	1	-	2	-	1	-	2	1	2	4	10	14	35	102
Residual	Other Unintentional Injury (800-809, 826-949)	T	542	8	24	9	16	18	37	43	35	32	31	18	15	27	28	29	33	32	41	66
		M	374	5	16	5	14	15	32	39	32	24	25	11	13	21	22	17	19	21	22	21
		F	168	3	8	4	2	3	5	4	3	8	6	7	2	6	6	12	14	11	19	45
E950-E959	Suicide and Self-Inflicted Injury	T	542	-	-	-	8	57	64	75	54	50	33	29	28	21	27	30	21	19	13	13
		M	421	-	-	-	6	43	49	64	39	33	24	21	20	18	23	24	16	18	12	11
		F	121	-	-	-	2	14	15	11	15	17	9	8	8	3	4	6	5	1	1	2
E960-E969	Homicide and Injury Purposely Inflicted by Other Persons	T	119	2	3	1	-	8	14	16	24	10	6	10	5	4	4	4	2	2	3	1
		M	74	2	1	-	-	3	6	7	19	6	5	8	3	3	3	3	1	2	1	1
		F	45	-	2	1	-	5	8	9	5	4	1	2	2	1	1	1	1	-	2	-
E970-E978	Legal Intervention	T	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		M	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E980-E989	Injury Undetermined Whether Unintentionally or Purposely Inflicted	T	50	1	-	-	2	5	6	4	3	9	3	2	3	-	2	4	-	4	1	1
		M	34	1	-	-	2	3	4	3	3	6	3	-	1	-	2	3	-	2	-	1
		F	16	-	-	-	-	2	2	1	-	3	-	2	2	-	-	1	-	2	1	-
E990-E999	Injury Resulting from Operations of War	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Includes unknown age and sex
**Includes unknown age

Table 39
DEATHS DUE TO SELECTED CAUSES BY RACE
MINNESOTA RESIDENTS, 1987

	Total	White	Black	Indian	Other Asian and Pacific Islander	Other	Unknown
Total - All Causes	34,512	33,723	417	237	80	41	14
Infective-parasitic	400	373	19	6	2	-	-
Tuberculosis	5	3	1	1	-	-	-
Neoplasms - malignant	7,701	7,540	93	36	19	12	1
Digestive	1,994	1,954	26	7	3	4	-
Respiratory	1,836	1,793	26	11	3	3	-
Breast	724	716	6	1	1	-	-
Genital	928	912	5	5	3	2	1
Urinary	345	339	2	3	1	-	-
Leukemia	334	320	7	2	3	2	-
Diabetes mellitus	587	573	7	6	-	1	-
Major cardiovascular	15,748	15,528	121	64	15	16	4
Rheumatic	128	126	1	-	-	1	-
Hypertensive heart	184	182	2	-	-	-	-
Ischemic heart	8,225	8,115	55	37	8	6	4
Other heart	3,074	3,034	25	8	3	4	-
Hypertension	209	204	5	-	-	-	-
Cerebrovascular	2,884	2,839	23	13	4	5	-
Arteriosclerosis	410	406	1	3	-	-	-
Respiratory	2,947	2,896	24	17	5	5	-
Pneumonia	1,296	1,274	7	10	3	2	-
Influenza	12	12	-	-	-	-	-
Bronchitis	58	57	-	1		-	-
Emphysema	169	167	1	1	-	-	-
Asthma	88	84	3	-	1	-	-
Ulcer of stomach & duodenum	110	110	-	-	-	-	-
Hernia & intestinal obstruction	93	91	-	1	1	-	-
Chronic liver disease & cirrhosis	312	287	7	14	3	-	1
Nephritis, nephrotic syndrome & nephrosis	302	297	2	3	-	-	-
Kidney infections	23	23	-	-	-	-	-
Pregnancy, childbirth & puerperium	1	1	-	-	-	-	-
Congenital anomalies	223	202	8	6	7	-	-
Certain conditions originating in the perinatal period	218	183	26	7	2	-	-
Ill-defined	722	687	15	10	5	2	3
Other diseases	2,946	2,881	38	22	3	1	1
Unintentional Injury	1,467	1,393	29	31	9	1	4
Motor vehicle	593	553	14	16	7	-	3
Falls	332	327	3	2	-	-	-
Suicide	542	518	8	7	6	3	-
Homicide	119	90	20	7	2	-	-
Other violent deaths	51	50	-	-	1	-	-

Table 40

FIFTEEN LEADING CAUSES OF DEATH, DEATH RATES PER 100,000 POPULATION AND PERCENT OF TOTAL DEATHS, MINNESOTA RESIDENTS, 1987

Cause of Death	Number of Deaths	Death Rates	Percent of Total
Heart Disease (390-398, 402, 404-429)	11,830	278.6	34.3
Cancer (Malignant Neoplasms) (140-208)	7,701	181.4	22.3
Cerebrovascular Disease (430-438)	2,884	67.9	8.4
Unintentional Injury (800-949)	1,467	34.6	4.3
Motor Vehicle (810-825)	(593)	(14.0)	(1.7)
Falls (880-888)	(332)	(7.8)	(1.0)
Pneumonia and Influenza (480-487)	1,308	30.8	3.8
Pneumonia (480-486)	(1,296)	(30.5)	(3.8)
Influenza (487)	(12)	(0.3)	(0.0)
Chronic Obstructive Pulmonary Diseases and Allied Conditions (490-496)	1,252	29.5	3.6
Diabetes Mellitus (250)	587	13.8	1.7
Suicide (950-959)	542	12.8	1.6
Arteriosclerosis (440)	410	9.7	1.2
Chronic Liver Disease and Cirrhosis (571)	312	7.3	0.9
Nephritis, Nephrotic Snydrome, and Nephrosis (580-589)	302	7.1	0.9
Congenital Anomalies (740-759)	223	5.3	0.6
Certain Conditions Originating in the Perinatal Period (760-779)	218	5.1	0.6
Septicemia (038)	210	4.9	0.6
Hypertensive Disease Without Mention of Heart Disease (401,403)	209	4.9	0.6
All Other Causes	5,057	119.1	14.7
Total - All Causes	34,512	812.8	100.0

Table 41
LEADING CAUSES OF DEATH BY SELECTED AGE GROUPS
MINNESOTA RESIDENTS, 1987

	No. of Deaths	Per-cent	Age/Cause Specific Death Rate Per 100,000 Population
1-4 Years			
Total - all causes	86	100.0	30.7
Unintentional injury	41	47.7	14.6
Motor vehicle	(15)	(17.4)	(5.4)
Malignant neoplasms	9	10.5	3.2
Congenital anomalies	7	8.1	2.5
Diseases of the nervous system and sense organs	6	7.0	2.1
Endocrine, nutritional and metabolic diseases and immunity disorders	5	5.8	1.8
5-9 Years			
Total - all causes	65	100.0	21.7
Unintentional injury	32	49.2	10.7
Motor vehicle	(23)	(35.4)	(7.7)
Malignant neoplasms	14	21.5	4.7
Diseases of the nervous system and sense organs	6	9.2	2.0
Congenital anomalies	5	7.7	1.7
Diseases of the heart	2	3.1	0.7
10-14 Years			
Total - all causes	61	100.0	19.4
Unintentional injury	33	54.1	10.5
Motor vehicle	(17)	(27.9)	(5.4)
Suicide	8	13.1	2.5
Malignant neoplasms	6	9.8	1.9
Diseases of the heart	2	3.3	0.6
Cerebrovascular disease	2	3.3	0.6
15-19 Years			
Total - all causes	243	100.0	67.9
Unintentional injury	123	50.6	34.4
Motor vehicle	(104)	(42.8)	(29.0)
Suicide	57	23.5	15.9
Malignant neoplasms	11	4.5	3.1
Congenital anomalies	10	4.1	2.8
Homicide	8	3.3	2.2
20-34 Years			
Total - all causes	903	100.0	78.9
Unintentional injury	333	36.9	29.1
Motor vehicle	(205)	(22.7)	(17.9)
Suicide	193	21.4	16.9
Malignant neoplasms	91	10.1	8.0
Homicide	54	6.0	4.7
Diseases of the heart	40	4.4	3.5
35-49 Years			
Total - all causes	1,399	100.0	195.2
Malignant neoplasms	411	29.4	57.4
Diseases of the heart	307	21.9	42.8
Unintentional injury	181	12.9	25.3
Motor vehicle	(85)	(6.1)	(11.9)
Suicide	112	8.0	15.6
Chronic liver disease and cirrhosis	47	3.4	6.6
Cerebrovascular disease	46	3.3	6.4
50-64 Years			
Total - all causes	4,342	100.0	799.0
Malignant neoplasms	1,622	37.4	298.5
Diseases of the heart	1,402	32.3	258.0
Cerebrovascular disease	164	3.8	30.2
Chronic obstructive pulmonary diseases and allied conditions	147	3.4	27.1
Unintentional injury	140	3.2	25.8
Motor vehicle	(49)	(1.1)	(9.0)
Chronic liver disease	110	2.5	20.2
65-74 Years			
Total - all causes	6,930	100.0	2,375.5
Diseases of the heart	2,387	34.4	818.2
Malignant neoplasms	2,275	32.8	779.8
Chronic obstructive pulmonary diseases and allied conditions	377	5.4	129.2
Cerebrovascular disease	362	5.2	124.1
Diseases of the nervous system and sense organs	154	2.2	52.8
Pneumonia and influenza	137	2.0	47.0
75 Years and Over			
Total - all causes	19,919	100.0	8,507.0
Diseases of the heart	7,670	38.5	3,275.7
Malignant neoplasms	3,260	16.4	1,392.3
Cerebrovascular disease	2,290	11.5	978.0
Pneumonia and influenza	1,090	5.5	465.5
Chronic obstructive pulmonary diseases and allied conditions	708	3.6	302.4
Diseases of the nervous system and sense organs	465	2.3	198.6

Table 42
DEATHS DUE TO HIV INFECTION[1]
MINNESOTA RESIDENTS, 1987

Deaths Due to HIV Infection as Underlying Cause

		Age Group										
	Total	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
Cause of Death												
HIV Infection With Specified Secondary Infections or Malignant Neoplasms (AIDS)	70	-	3	11	18	15	10	3	3	-	2	5
HIV Infection With Other Specified Manifestations in the Absence of Either Specified Secondary Infections or Malignant Neoplasms	1	-	-	-	1	-	-	-	-	-	-	-
Other HIV Infection	-	-	-	-	-	-	-	-	-	-	-	-
Positive Serological or Viral Culture Findings for HIV	-	-	-	-	-	-	-	-	-	-	-	-
Total All HIV Infection as Underlying Cause	71	-	3	11	19	15	10	3	3	-	2	5

HIV Infection Mentioned as Contributing Factor for Deaths Due to Other Underlying Causes

	Total	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
Cause of Death												
Other Infective and Parasitic Diseases	3	-	-	1	-	-	1	-	-	1	-	-
Malignant Neoplasms	3	-	-	-	-	-	-	-	1	-	-	2
Diabetes Mellitus	1	-	-	-	-	1	-	-	-	-	-	-
Diseases of the Digestive System	3	-	-	1	-	-	-	1	-	-	1	-
Suicide	1	-	-	-	-	-	-	1	-	-	-	-
Total Other Underlying Causes of Death With HIV Indicated as Contributing Factor	11	-	-	2	-	1	1	2	1	1	1	2
Total Deaths With Any Mention of HIV Infection	82	-	3	13	19	16	11	5	4	1	3	7

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[1] All etiological categories are consistent with those reported by the National Center for Health Statistics.

Table 43
ACCIDENT FATALITIES OCCURRING IN MINNESOTA* BY ACCIDENT CATEGORY** AND AGE GROUP***
1986 - 1987

		1987								
			AGE GROUP							
TYPE OF ACCIDENT	1986 TOTAL	TOTAL	<5	5-14	15-24	25-44	45-64	65+	Unknown Age
TOTAL ACCIDENTAL DEATHS	1,395	1,427	54	65	236	328	186	558	-
OCCUPATIONAL DEATHS	41	63	-	1	9	32	15	6	-
Agriculture	17	20	-	1	-	7	7	5	-
Mining, quarrying, oil and gas wells	-	2	-	-	-	2	-	-	-
Construction	8	21	-	-	3	14	4	-	-
Manufacturing, logging and lumber	7	8	-	-	1	5	2	-	-
Transportation and public utilities	4	3	-	-	-	2	1	-	-
Trade	1	3	-	-	2	1	-	-	-
Service	3	5	-	-	2	1	1	1	-
Government	-	-	-	-	-	-	-	-	-
Other and unspecified industry	1	1	-	-	1	-	-	-	-
HOME DEATHS	296	262	18	12	16	47	39	130	-
Poisonings (except gas)	16	26	-	1	3	15	5	2	-
Poisonings by gases and vapors	23	16	1	1	3	5	4	2	-
Falls	112	115	2	-	1	5	13	94	-
Fires	70	25	3	1	1	3	5	12	-
Drowning	10	9	3	1	-	1	2	2	-
Suffocation, ingested food or object	3	8	1	-	-	2	1	4	-
Suffocation, mechanical	13	19	6	3	2	5	2	1	-
Firearms	6	7	-	2	3	1	-	1	-
Other and unspecified home accidents	43	37	2	3	3	10	7	12	-
MOTOR VEHICLE DEATHS	586	558	17	38	180	170	70	83	-
Injury to pedestrian	73	72	5	12	10	14	13	18	-
Injury to pedal cyclist	12	14	-	4	6	3	0	1	-
Injury to rider of animal or occupant of animal-drawn vehicle	-	-	-	-	-	-	-	-	-
Collision with railroad train	13	5	-	-	1	2	1	1	-
Collision with other motor vehicle	248	242	4	10	65	73	41	49	-
Collision with fixed object	25	18	-	-	3	9	3	3	-
Noncollision	171	170	3	7	85	60	10	5	-
Other and unspecified accidents	44	37	5	5	10	9	2	6	-
PUBLIC NON-MOTOR VEHICLE	278	296	16	9	28	59	43	141	-
Railroad (not with motor vehicle)	4	11	1	1	4	3	2	-	-
Other road vehicle (not with motor vehicle)	2	4	1	-	-	-	2	1	-
Water transportation	16	19	-	-	7	7	2	3	-
Air transportation	13	25	2	2	3	12	5	1	-
Falls	88	97	1	-	1	8	5	82	-
Fires	4	4	-	1	-	2	1	-	-
Drowning	53	32	4	4	8	8	7	1	-
Firearms	9	4	-	-	-	3	1	-	-
Other and unspecified public accidents	89	100	7	1	5	16	18	53	-
ACCIDENT TYPE UNKNOWN	194	248	3	5	3	20	19	198	-

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* Includes only those deaths for which the accident occurred in Minnesota.
** National Safety Council categories.
*** Age group applicable to 1987 only.

Table 44
DEATHS OCCURRING IN MINNESOTA BY CAUSE AND AUTOPSY STATUS
1987

		Autopsy Status					
		Number			Percent		
Cause of Death	Total Deaths	Performed	Not Performed	Not Stated	Performed	Not Performed	Not Stated
Total - All Causes	34,813	4,645	25,318	4,850	13.3	72.7	13.9
I. Infectious and parasitic diseases	418	120	263	35	28.7	62.9	8.4
II. Neoplasms	7,967	604	6,134	1,229	7.6	77.0	15.4
III. Endocrine, nutritional, and metabolic diseases and immunity disorders	859	94	647	118	10.9	75.3	13.7
IV. Diseases of the blood and blood-forming organs	164	33	106	25	20.1	64.6	15.2
V. Mental disorders	589	42	458	89	7.1	77.8	15.1
VI. Diseases of the nervous system and sense organs	756	93	566	97	12.3	74.9	12.8
VII. Diseases of the circulatory system	15,866	1,837	11,738	2,291	11.6	74.0	14.4
VIII. Diseases of the respiratory system	2,951	260	2,248	443	8.8	76.2	15.0
IX. Diseases of the digestive system	1,147	242	778	127	21.1	67.8	11.1
X. Diseases of the genitourinary system	528	37	398	93	7.0	75.4	17.6
XI. Complications of pregnancy, childbirth, and the puerperium	1	-	1	-	0.0	100.0	0.0
XII. Diseases of the skin and subcutaneous tissue	50	2	43	5	4.0	86.0	10.0
XIII. Diseases of the musculoskeletal system and connective tissue	147	18	110	19	12.2	74.8	12.9
XIV. Congenital anomalies	252	130	93	29	51.6	36.9	11.5
XV. Certain conditions originating in the perinatal period	225	89	111	25	39.6	49.3	11.1
XVI. Symptoms, signs and ill-defined conditions	724	148	472	104	20.4	65.2	14.4
XVII. Injury and poisoning	2,169	896	1,152	121	41.3	53.1	5.6

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*
MINNESOTA, 1987

		State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
DEATHS - Total		34,512	171	910	293	273	218	94	397
Rate:	Age & sex adjusted	8.1	8.1	9.5	8.0	8.4	10.0	7.8	7.7
Rate:	Sex adjusted-age specific								
	Under 5 years	1.9	2.2	1.9	2.8	1.1	1.8	1.6	1.8
	5-14 years	0.2	0.0	0.1	0.2	0.0	0.4	0.0	0.2
	15-24 years	0.6	0.6	0.6	1.1	0.9	0.4	0.8	0.5
	25-44 years	1.2	1.7	1.0	0.6	1.0	1.2	0.6	1.6
	45-64 years	6.7	8.9	6.8	5.1	6.8	6.7	4.6	6.1
	65 years and over	51.1	46.1	62.5	52.4	53.7	66.1	53.0	47.7
Sex:	Male	17,529	96	509	170	155	115	48	201
	Female	16,983	75	401	123	118	103	46	196
Race:	White	33,723	170	901	280	242	218	93	396
	Black	417	-	1	-	-	-	-	-
	Indian	237	1	4	13	31	-	-	-
	Other & Unknown	135	-	4	-	-	-	1	1
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	400	1	7	6	3	5	-	4
010-018	Tuberculosis	5	-	-	-	1	-	-	-
140-208	Neoplasms-malignant	7,701	43	220	64	61	46	22	85
150-159	Digestive	1,994	19	53	17	18	10	5	23
160-165	Respiratory	1,836	11	72	14	17	8	5	19
174-175	Breast	724	1	25	6	4	4	2	6
179-187	Genital	928	6	15	9	9	10	3	11
188-189	Urinary	345	2	4	3	4	2	-	2
204-208	Leukemia	334	3	13	4	1	1	3	2
250	Diabetes mellitus	587	2	11	2	4	1	-	11
390-448	Major cardiovascular	15,748	73	388	143	129	98	44	189
390-398	Rheumatic heart	128	-	2	-	-	1	-	1
402,404	Hypertensive heart	184	1	1	-	-	-	-	3
410-414	Ischemic heart	8,225	47	202	80	72	56	23	101
420-429	Other heart	3,074	4	89	27	20	15	9	27
400-401, & 403	Hypertension	209	1	3	-	-	-	-	3
430-438	Cerebrovascular	2,884	15	47	28	27	22	10	41
440	Arteriosclerosis	410	2	22	3	7	3	-	7
460-519	Respiratory	2,947	21	82	22	28	20	7	35
480-486	Pneumonia	1,296	10	24	8	17	11	6	21
487	Influenza	12	-	-	-	-	-	-	-
490-491	Bronchitis	58	1	-	-	-	1	-	-
492	Emphysema	169	-	5	2	2	-	1	2
493	Asthma	88	1	4	1	2	-	-	-
531-533	Ulcer of stomach and duodenum	110	1	2	-	1	1	-	-
550-553, & 560	Hernia & intestinal obstruction	93	-	4	-	1	-	1	-
571	Chronic liver disease and cirrhosis	312	3	7	1	-	-	-	4
580-589	Nephritis, nephrotic syndrome & nephrosis	302	1	5	6	3	1	3	4
590	Kidney infection	23	-	-	-	-	1	-	-
630-676	Pregnancy, childbirth & puerperium	1	-	-	-	-	-	-	-
740-759	Congenital anomalies	223	-	14	1	2	-	1	3
560-779	Perinatal conditions	218	1	10	1	-	1	-	3
780-799	Ill-defined	722	3	9	2	1	1	1	9
Residual	Other diseases	2,946	14	58	22	20	28	11	30
E800-949	Unintentional injury	1,467	7	59	18	11	10	3	10
E810-825	Motor vehicle	593	2	24	8	4	6	1	5
E880-888	Falls	332	1	10	1	1	3	1	2
E950-959	Suicide & self-inflicted injury	542	1	27	3	5	4	-	9
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	119	-	6	1	3	1	1	1
E980-999	Other violent deaths	51	-	1	1	1	-	-	-

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1987 (CONT.)

		Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay
DEATHS - Total		296	297	236	251	166	244	350
Rate:	Age & sex adjusted	8.0	8.7	8.0	7.8	8.4	8.5	7.7
Rate:	Sex adjusted-age specific							
	Under 5 years	1.4	2.2	1.5	0.6	1.7	0.4	1.6
	5-14 years	0.3	0.2	0.2	0.3	0.5	0.0	0.0
	15-24 years	0.6	0.6	0.7	1.1	2.9	1.5	0.2
	25-44 years	1.1	2.1	0.7	1.4	0.3	1.5	0.9
	45-64 years	6.4	9.1	4.6	5.7	5.2	8.0	5.9
	65 years and over	51.1	50.0	54.2	49.7	53.9	51.2	50.8
Sex:	Male	150	148	125	166	84	131	189
	Female	146	149	111	85	82	113	161
Race:	White	296	286	236	234	166	244	347
	Black	-	-	-	-	-	-	-
	Indian	-	11	-	17	-	-	3
	Other & Unknown	-	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	4	3	1	4	1	3	2
010-018	Tuberculosis	-	-	-	-	-	-	1
140-208	Neoplasms-malignant	72	59	52	71	31	51	67
150-159	Digestive	14	15	12	13	13	6	19
160-165	Respiratory	11	8	7	18	5	10	10
174-175	Breast	8	6	6	4	1	7	10
179-187	Genital	14	10	7	18	5	7	3
188-189	Urinary	5	3	6	3	-	2	4
204-208	Leukemia	4	3	5	1	3	4	4
250	Diabetes mellitus	3	7	2	2	6	6	9
390-448	Major cardiovascular	150	159	105	109	63	106	162
390-398	Rheumatic heart	-	1	1	-	-	1	-
402,404	Hypertensive heart	2	3	1	-	-	3	5
410-414	Ischemic heart	90	85	62	55	25	43	68
420-429	Other heart	15	18	15	20	18	25	47
400-401, & 403	Hypertension	-	4	1	1	1	3	1
430-438	Cerebrovascular	35	26	18	17	13	24	28
440	Arteriosclerosis	5	16	3	8	2	1	7
460-519	Respiratory	27	14	20	19	22	27	26
480-486	Pneumonia	11	3	9	12	10	14	9
487	Influenza	1	2	-	-	-	-	1
490-491	Bronchitis	-	1	-	-	-	2	1
492	Emphysema	-	2	1	-	2	2	2
493	Asthma	2	1	-	-	1	-	1
531-533	Ulcer of stomach and duodenum	1	3	1	1	1	1	1
550-553, & 560	Hernia & intestinal obstruction	2	2	-	2	-	-	-
571	Chronic liver disease and cirrhosis	1	7	1	5	1	1	4
580-589	Nephritis, nephrotic syndrome & nephrosis	1	2	1	2	1	1	7
590	Kidney infection	-	-	-	1	1	2	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	1	3	-	1	-	2
760-779	Perinatal conditions	1	3	1	-	1	-	4
780-799	Ill-defined	2	2	2	6	3	8	9
Residual	Other diseases	14	21	30	16	23	17	43
E800-949	Unintentional injury	12	10	12	10	10	14	11
E810-825	Motor vehicle	3	6	8	5	5	8	5
E880-888	Falls	6	2	2	1	4	1	4
E950-959	Suicide & self-inflicted injury	2	4	4	2	1	6	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	2	-	-	-	-	1	-
E980-999	Other violent deaths	-	-	1	1	-	-	1

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Cook	Cotton-wood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fill-more
DEATHS - Total		40	177	451	1,042	124	304	207	255
Rate:	Age & sex adjusted	7.7	8.3	7.6	8.2	7.9	7.7	7.3	8.0
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	1.9	2.0	1.9	2.5	2.4	2.0	0.5
	5-14 years	0.0	0.0	0.2	0.2	0.0	0.7	0.0	0.3
	15-24 years	0.0	1.5	0.6	0.5	0.4	0.4	1.2	2.2
	25-44 years	0.7	0.3	1.8	0.9	0.9	1.2	0.8	1.0
	45-64 years	12.9	7.0	6.9	5.2	7.9	4.4	4.4	7.0
	65 years and over	42.2	53.2	45.1	54.5	48.1	50.3	48.0	48.2
Sex:	Male	23	88	251	550	60	156	99	138
	Female	17	89	200	492	64	148	108	117
Race:	White	38	177	450	1,032	124	303	206	255
	Black	-	-	-	3	-	-	-	-
	Indian	2	-	-	1	-	-	-	-
	Other & Unknown	-	-	1	6	-	1	1	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	-	3	8	9	1	2	1	2
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	15	34	93	249	27	69	42	55
150-159	Digestive	1	11	21	62	3	16	11	17
160-165	Respiratory	5	5	27	68	5	21	10	12
174-175	Breast	1	5	5	32	2	5	5	4
179-187	Genital	3	8	17	28	4	6	2	4
188-189	Urinary	-	1	5	10	1	1	6	5
204-208	Leukemia	-	1	2	12	3	5	3	5
250	Diabetes mellitus	-	2	5	19	-	4	1	6
390-448	Major cardiovascular	9	96	230	429	68	151	104	131
390-398	Rheumatic heart	-	-	2	5	1	-	-	1
402,404	Hypertensive heart	-	1	10	2	1	-	-	1
410-414	Ischemic heart	4	61	117	247	32	79	53	79
420-429	Other heart	1	17	50	74	16	24	22	15
400-401, & 403	Hypertension	-	2	2	7	-	-	-	1
430-438	Cerebrovascular	3	9	34	63	11	39	26	24
440	Arteriosclerosis	-	3	4	12	4	5	1	3
460-519	Respiratory	3	14	34	70	9	20	13	17
480-486	Pneumonia	2	10	14	16	3	8	6	5
487	Influenza	-	-	-	-	-	-	-	-
490-491	Bronchitis	-	-	1	2	-	1	1	-
492	Emphysema	-	2	1	9	1	1	-	-
493	Asthma	-	-	1	3	-	-	-	-
531-533	Ulcer of stomach and duodenum	-	-	2	3	1	1	2	-
550-553, & 560	Hernia & intestinal obstruction	-	-	2	2	-	-	2	1
571	Chronic liver disease and cirrhosis	-	-	4	12	-	3	5	1
580-589	Nephritis, nephrotic syndrome & nephrosis	1	2	2	12	-	3	1	3
590	Kidney infection	-	-	1	-	-	-	-	1
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	3	1	12	-	1	2	-
760-779	Perinatal conditions	-	-	2	13	1	1	1	1
780-799	Ill-defined	4	1	7	33	1	3	2	1
Residual	Other diseases	5	18	27	93	9	33	23	17
E800-949	Unintentional injury	2	2	24	53	6	10	6	13
E810-825	Motor vehicle	-	1	8	22	2	7	2	6
E880-888	Falls	-	-	6	11	2	1	3	5
E950-959	Suicide & self-inflicted injury	1	2	8	30	-	3	2	6
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	1	2	1	-	-	-
E980-999	Other violent deaths	-	-	-	1	-	-	-	-

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Freeborn	Goodhue	Grant	Hennepin	Minn-eapolis	Houston	Hubbard
DEATHS - Total		358	423	95	7,892	3,930	176	150
Rate:	Age & sex adjusted	8.1	8.9	7.6	8.4	9.3	7.6	7.5
Rate:	Sex adjusted-age specific							
	Under 5 years	1.1	1.7	0.0	2.5	3.7	2.0	0.7
	5-14 years	0.2	0.2	0.0	0.2	0.3	0.3	0.0
	15-24 years	1.1	1.0	0.0	0.5	0.5	0.3	0.5
	25-44 years	1.6	1.3	0.0	1.3	2.1	1.4	1.2
	45-64 years	5.5	5.9	6.4	7.4	10.5	5.8	9.1
	65 years and over	51.3	57.9	52.6	51.8	51.6	47.8	43.4
Sex:	Male	151	222	58	3,818	1,857	93	82
	Female	207	201	37	4,074	2,073	83	68
Race:	White	358	421	95	7,515	3,610	176	149
	Black	-	-	-	259	228	-	-
	Indian	-	1	-	73	67	-	1
	Other & Unknown	-	1	-	45	25	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parastic	3	5	2	135	83	3	1
010-018	Tuberculosis	-	-	-	1	1	-	-
140-208	Neoplasms-malignant	78	82	25	1,815	845	36	33
150-159	Digestive	21	21	10	430	196	3	9
160-165	Respiratory	18	18	3	450	222	14	9
174-175	Breast	6	11	1	187	78	3	-
179-187	Genital	12	7	6	216	107	5	2
188-189	Urinary	2	6	1	85	40	2	7
204-208	Leukemia	4	5	1	73	34	1	1
250	Diabetes mellitus	7	8	2	151	75	1	3
390-448	Major cardiovascular	206	213	41	3,248	1,587	87	66
390-398	Rheumatic heart	-	3	-	37	17	-	-
402,404	Hypertensive heart	5	6	1	32	17	3	-
410-414	Ischemic heart	96	89	22	1,698	804	42	31
420-429	Other heart	49	42	11	553	290	14	15
400-401, & 403	Hypertension	3	3	1	89	56	1	1
430-438	Cerebrovascular	43	58	1	641	313	21	12
440	Arteriosclerosis	5	8	2	59	34	1	6
460-519	Respiratory	18	34	8	710	347	16	15
480-486	Pneumonia	12	12	4	297	147	9	7
487	Influenza	-	-	-	-	-	-	-
490-491	Bronchitis	-	2	-	11	5	-	-
492	Emphysema	-	2	1	37	14	2	-
493	Asthma	-	3	-	23	11	1	-
531-533	Ulcer of stomach and duodenum	-	2	-	33	14	1	-
550-553, & 560	Hernia & intestinal obstruction	-	1	1	23	11	-	-
571	Chronic liver disease and cirrhosis	3	4	1	87	52	-	1
580-589	Nephritis, nephrotic syndrome & nephrosis	1	-	1	72	47	3	2
590	Kidney infection	-	-	-	2	-	-	1
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	4	2	-	54	24	2	-
760-779	Perinatal conditions	2	-	-	70	34	-	-
780-799	Ill-defined	1	4	-	193	132	-	10
Residual	Other diseases	25	43	13	759	409	16	9
E800-949	Unintentional Injury	8	20	-	341	169	6	6
E810-825	Motor vehicle	3	11	-	94	39	3	4
E880-888	Falls	2	4	-	123	63	-	1
E950-959	Suicide & self-inflicted injury	1	4	1	145	60	3	2
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	1	-	43	35	2	1
E980-999	Other violent deaths	1	-	-	11	6	-	-

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching
DEATHS - Total		220	353	126	112	346	98	144
Rate:	Age & sex adjusted	10.3	7.1	7.7	8.1	7.8	10.2	7.6
Rate:	Sex adjusted-age specific							
	Under 5 years	1.7	2.0	1.6	1.7	1.2	0.0	0.8
	5-14 years	0.6	0.0	0.0	0.4	0.2	1.1	0.0
	15-24 years	0.7	0.1	0.5	1.5	0.4	0.0	0.8
	25-44 years	1.0	1.0	1.2	0.3	1.1	1.2	1.3
	45-64 years	7.8	9.0	3.2	8.1	5.8	9.4	6.6
	65 years and over	67.0	41.1	53.1	49.5	50.4	65.1	47.0
Sex:	Male	118	191	64	56	194	55	79
	Female	102	162	62	56	152	43	65
Race:	White	220	348	126	111	344	98	139
	Black	-	-	-	-	-	-	-
	Indian	-	5	-	-	1	-	4
	Other & Unknown	-	-	-	1	1	-	1
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	1	-	1	1	4	3	1
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	42	93	34	23	65	25	29
150-159	Digestive	18	35	5	6	20	7	7
160-165	Respiratory	6	23	7	8	14	3	7
174-175	Breast	3	5	7	1	6	2	3
179-187	Genital	4	7	5	3	11	6	3
188-189	Urinary	1	6	4	1	2	3	4
204-208	Leukemia	1	2	2	1	2	1	-
250	Diabetes mellitus	6	6	1	1	3	3	-
390-448	Major cardiovascular	110	158	67	55	184	53	75
390-398	Rheumatic heart	-	1	3	-	1	1	-
402,404	Hypertensive heart	-	1	-	-	1	-	-
410-414	Ischemic heart	42	72	30	26	109	30	44
420-429	Other heart	27	34	7	12	40	9	17
400-401, & 403	Hypertension	1	1	1	-	1	-	-
430-438	Cerebrovascular	34	33	20	11	24	10	12
440	Arteriosclerosis	5	3	2	5	4	1	-
460-519	Respiratory	20	35	4	9	29	2	8
480-486	Pneumonia	12	12	2	7	21	1	5
487	Influenza	-	-	-	-	-	-	1
490-491	Bronchitis	1	2	-	-	1	-	-
492	Emphysema	2	5	1	-	-	-	-
493	Asthma	-	2	-	-	-	-	-
531-533	Ulcer of stomach and duodenum	-	2	-	-	1	1	-
550-553, & 560	Hernia & intestinal obstruction	2	2	1	-	-	-	1
571	Chronic liver disease and cirrhosis	2	6	-	-	2	-	3
580-589	Nephritis, nephrotic syndrome & nephrosis	1	2	4	1	2	1	2
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	5	-	-	1	-	1
760-779	Perinatal conditions	1	2	2	1	1	-	-
780-799	Ill-defined	5	7	1	-	7	-	1
Residual	Other diseases	12	20	3	11	29	7	11
E800-949	Unintentional Injury	12	11	6	7	13	3	8
E810-825	Motor vehicle	5	1	2	4	5	1	5
E880-888	Falls	1	2	2	1	1	-	1
E950-959	Suicide & self-inflicted injury	4	3	1	1	3	-	3
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	2	-	1	-	2	-	-
E980-999	Other violent deaths	-	1	-	2	-	-	1

Table 45

SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA 1987 (CONT.)

		Lac Qui Parle	Lake	Lake of the Woods	Le-Sueur	Lin-coln	Lyon	Mc-Leod	Mahnomen
DEATHS - Total		121	130	34	233	107	218	288	69
Rate:	Age & sex adjusted	8.1	9.5	6.2	8.1	8.7	7.3	8.2	9.6
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	0.0	0.0	1.4	0.0	0.4	2.8	2.2
	5-14 years	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
	15-24 years	0.7	0.5	0.0	1.5	0.0	1.0	0.9	0.0
	25-44 years	1.3	1.2	1.0	0.5	2.5	0.9	1.0	1.6
	45-64 years	5.9	10.9	7.4	7.0	6.9	5.1	6.3	10.6
	65 years and over	53.2	57.5	37.1	51.2	54.4	47.8	51.0	57.7
Sex:	Male	58	77	20	113	51	103	156	40
	Female	63	53	14	120	56	115	132	29
Race:	White	121	130	33	232	107	218	288	59
	Black	-	-	-	-	-	-	-	-
	Indian	-	-	-	-	-	-	-	10
	Other & Unknown	-	-	1	1	-	-	-	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	2	-	-	1	3	-	1	1
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	26	33	10	48	21	41	68	17
150-159	Digestive	8	8	2	14	5	14	19	4
160-165	Respiratory	2	11	2	10	3	6	11	4
174-175	Breast	5	4	1	2	3	2	11	1
179-187	Genital	4	5	-	4	3	4	8	2
188-189	Urinary	-	-	-	3	2	4	-	1
204-208	Leukemia	-	-	-	2	1	2	5	-
250	Diabetes mellitus	1	4	2	3	1	7	3	-
390-448	Major cardiovascular	59	56	14	126	57	116	158	34
390-398	Rheumatic heart	-	-	-	2	1	3	3	-
402,404	Hypertensive heart	-	-	2	1	1	2	2	-
410-414	Ischemic heart	27	22	6	59	32	67	76	16
420-429	Other heart	15	17	6	32	4	9	31	12
400-401, & 403	Hypertension	2	-	-	2	-	1	-	2
430-438	Cerebrovascular	9	14	-	21	16	27	39	3
440	Arteriosclerosis	4	1	-	3	1	-	4	-
460-519	Respiratory	17	9	2	15	6	8	16	7
480-486	Pneumonia	10	4	1	5	2	3	9	2
487	Influenza	-	-	-	-	-	-	-	-
490-491	Bronchitis	-	-	-	-	-	-	1	1
492	Emphysema	-	-	-	1	-	2	1	1
493	Asthma	1	1	-	-	-	-	1	-
531-533	Ulcer of stomach and duodenum	-	-	-	1	-	1	-	-
550-553, & 560	Hernia & intestinal obstruction	1	1	-	-	2	-	1	-
571	Chronic liver disease and cirrhosis	-	1	1	-	1	3	1	-
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	-	2	-	2	2	-
590	Kidney infection	-	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	-	-	1	-	2	2	1
760-779	Perinatal conditions	-	-	-	1	-	-	1	-
780-799	Ill-defined	1	3	-	2	-	2	5	-
Residual	Other diseases	6	15	4	22	11	24	13	2
E800-949	Unintentional Injury	2	4	1	10	4	8	15	6
E810-825	Motor vehicle	-	1	-	6	1	5	12	3
E880-888	Falls	2	2	-	3	1	-	2	1
E950-959	Suicide & self-inflicted injury	3	3	-	1	-	2	1	1
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	1	-	-	1	2	1	-
E980-999	Other violent deaths	1	-	-	-	-	-	-	-

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Martin	Meeker	Mille Lacs	Morrison	Mower	Murray	Nicollet
DEATHS - Total		251	223	240	313	375	100	178
Rate:	Age & sex adjusted	7.6	8.5	9.1	8.7	6.7	6.9	7.4
Rate:	Sex adjusted-age specific							
	Under 5 years	0.5	3.1	2.6	1.7	1.0	0.0	0.9
	5-14 years	0.0	0.6	0.7	0.2	0.4	0.0	0.0
	15-24 years	0.9	0.3	0.7	0.6	0.7	2.6	0.4
	25-44 years	1.0	1.9	0.6	1.3	1.0	1.6	1.2
	45-64 years	6.1	6.0	7.3	6.5	5.7	4.6	6.2
	65 years and over	48.5	52.9	58.3	55.8	41.6	41.7	47.3
Sex:	Male	131	117	126	160	179	61	98
	Female	120	106	114	153	196	39	80
Race:	White	250	223	238	313	375	100	177
	Black	-	-	-	-	-	-	-
	Indian	-	-	2	-	-	-	1
	Other & Unknown	1	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	1	3	3	4	1	1	1
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	62	41	58	65	96	22	36
150-159	Digestive	17	11	15	21	29	6	10
160-165	Respiratory	10	10	15	14	22	8	5
174-175	Breast	8	4	1	6	13	2	4
179-187	Genital	12	4	12	6	10	2	4
188-189	Urinary	1	1	1	3	2	-	4
204-208	Leukemia	3	2	4	3	5	-	3
250	Diabetes mellitus	5	5	4	7	6	-	1
390-448	Major cardiovascular	121	103	107	160	174	46	85
390-398	Rheumatic heart	3	1	2	2	-	-	1
402,404	Hypertensive heart	1	1	-	1	3	1	2
410-414	Ischemic heart	73	57	54	81	75	29	42
420-429	Other heart	24	19	25	28	43	11	15
400-401, & 403	Hypertension	2	1	-	-	2	-	2
430-438	Cerebrovascular	14	17	21	42	41	3	18
440	Arteriosclerosis	2	5	2	-	2	1	2
460-519	Respiratory	25	29	27	27	21	12	15
480-486	Pneumonia	13	15	17	14	13	6	4
487	Influenza	-	-	-	-	-	-	2
490-491	Bronchitis	1	1	1	-	-	-	-
492	Emphysema	-	2	2	-	-	1	-
493	Asthma	3	2	2	1	-	-	-
531-533	Ulcer of stomach and duodenum	1	1	-	1	-	-	-
550-553, & 560	Hernia & intestinal obstruction	1	1	-	2	-	-	-
571	Chronic liver disease and cirrhosis	1	2	2	4	4	-	2
580-589	Nephritis, nephrotic syndrome & nephrosis	3	1	2	4	5	1	2
590	Kidney infection	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	2	3	1	-	1	-	-
760-779	Perinatal conditions	-	-	1	1	-	-	1
780-799	Ill-defined	2	4	4	4	10	1	5
Residual	Other diseases	17	14	15	22	33	10	16
E800-949	Unintentional Injury	4	13	11	9	16	4	10
E810-825	Motor vehicle	1	6	5	4	8	1	5
E880-888	Falls	1	3	1	-	2	-	1
E950-959	Suicide & self-inflicted injury	5	2	4	3	8	3	4
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	1	1	1	-	-	-	-
E980-999	Other violent deaths	-	-	-	-	-	-	-

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Nobles	Norman	Olmsted	Otter Tail	Pennington	Pine	Pipestone	Polk
DEATHS - Total		181	135	632	543	132	206	123	403
Rate:	Age & sex adjusted	6.4	9.7	7.7	7.4	7.5	7.8	7.5	9.2
Rate:	Sex adjusted-age specific								
	Under 5 years	0.0	0.0	2.6	0.9	2.6	1.2	0.0	4.4
	5-14 years	0.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0
	15-24 years	0.0	0.0	0.4	1.0	0.4	1.2	1.9	0.9
	25-44 years	1.6	1.0	0.9	1.3	0.6	1.4	0.8	1.0
	45-64 years	6.9	7.5	6.1	4.1	6.3	7.4	6.8	7.5
	65 years and over	37.6	64.5	48.5	48.7	48.4	46.9	46.6	57.3
Sex:	Male	90	82	288	294	72	121	63	201
	Female	91	53	344	249	60	85	60	202
Race:	White	181	133	624	541	132	203	122	399
	Black	-	-	1	-	-	-	-	-
	Indian	-	1	-	2	-	2	1	1
	Other & Unknown	-	1	7	-	-	1	-	3
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	2	2	5	3	1	1	2	2
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	45	42	168	109	19	41	25	77
150-159	Digestive	14	13	41	39	6	11	4	24
160-165	Respiratory	9	9	39	25	4	5	9	11
174-175	Breast	6	2	16	6	2	3	2	7
179-187	Genital	3	7	23	7	4	8	6	9
188-189	Urinary	4	1	3	6	-	4	-	3
204-208	Leukemia	2	1	10	7	-	1	-	6
250	Diabetes mellitus	1	1	7	4	-	3	2	10
390-448	Major cardiovascular	94	67	269	276	71	92	62	215
390-398	Rheumatic heart	1	-	4	2	1	-	-	1
402,404	Hypertensive heart	1	1	1	3	-	-	-	2
410-414	Ischemic heart	61	44	165	151	38	45	38	115
420-429	Other heart	10	7	33	60	14	20	11	34
400-401, & 403	Hypertension	1	2	3	2	1	1	-	1
430-438	Cerebrovascular	15	9	38	36	12	19	10	48
440	Arteriosclerosis	-	2	10	8	-	4	2	5
460-519	Respiratory	12	3	45	45	9	23	10	32
480-486	Pneumonia	6	-	17	19	4	11	3	16
487	Influenza	-	-	-	-	-	-	-	-
490-491	Bronchitis	-	1	2	3	-	1	-	-
492	Emphysema	2	1	1	3	1	-	-	1
493	Asthma	-	-	1	-	-	-	-	1
531-533	Ulcer of stomach and duodenum	-	-	3	1	-	-	-	-
550-553, & 560	Hernia & intestinal obstruction	-	1	-	2	-	-	-	-
571	Chronic liver disease and cirrhosis	1	-	7	4	1	1	-	-
580-589	Nephritis, nephrotic syndrome & nephrosis	1	1	5	10	1	1	4	3
590	Kidney infection	-	-	-	-	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	-	6	1	-	1	-	2
760-779	Perinatal conditions	-	-	11	1	1	-	-	4
780-799	Ill-defined	1	-	5	9	7	9	5	9
Residual	Other diseases	14	13	62	49	14	10	7	26
E800-949	Unintentional Injury	7	5	25	25	7	19	6	17
E810-825	Motor vehicle	2	3	14	11	3	10	3	6
E880-888	Falls	1	1	3	1	2	2	1	7
E950-959	Suicide & self-inflicted injury	3	-	10	2	1	3	-	3
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	1	1	-	2	-	1
E980-999	Other violent deaths	-	-	3	1	-	-	-	2

Table 45
SELECTED MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Pope	Ramsey	St. Paul	Red Lake	Redwood	Renville	Rice	Rock
DEATHS - Total		139	3,953	2,723	61	178	213	407	82
Rate:	Age & sex adjusted	7.9	8.3	8.5	9.3	6.9	8.1	8.9	5.7
Rate:	Sex adjusted-age specific								
	Under 5 years	1.0	1.9	2.6	5.4	2.1	0.6	2.5	0.0
	5-14 years	0.0	0.2	0.2	0.0	0.0	0.7	0.4	1.3
	15-24 years	0.7	0.6	0.7	0.0	1.1	2.7	0.9	0.0
	25-44 years	1.1	1.3	1.7	3.6	0.5	1.6	1.3	0.0
	45-64 years	6.3	7.0	8.1	8.7	7.6	5.9	4.1	2.5
	65 years and over	50.7	51.9	50.2	51.0	40.6	48.0	59.7	41.5
Sex:	Male	91	1,781	1,214	35	86	122	189	40
	Female	48	2,172	1,509	26	92	91	218	42
Race:	White	139	3,765	2,550	60	178	213	405	82
	Black	-	137	130	1	-	-	-	-
	Indian	-	10	9	-	-	-	-	-
	Other & Unknown	-	41	34	-	-	-	2	-
ICDA***	CAUSE OF DEATH								
001-139	Infective-parasitic	5	48	34	-	1	5	3	1
010-018	Tuberculosis	-	1	1	-	-	-	-	-
140-208	Neoplasms-malignant	23	905	606	15	38	46	72	18
150-159	Digestive	9	228	155	-	13	13	22	4
160-165	Respiratory	1	237	157	3	6	12	19	4
174-175	Breast	-	86	50	1	1	1	8	1
179-187	Genital	3	80	52	9	8	7	7	3
188-189	Urinary	-	40	26	2	-	2	1	1
204-208	Leukemia	2	38	28	-	1	4	1	2
250	Diabetes mellitus	5	57	37	-	2	1	7	3
390-448	Major cardiovascular	71	1,742	1,216	25	81	97	202	40
390-398	Rheumatic heart	-	12	6	-	-	-	1	-
402,404	Hypertensive heart	-	29	22	-	1	2	3	-
410-414	Ischemic heart	42	934	657	10	48	53	103	22
420-429	Other heart	13	304	206	7	15	15	59	5
400-401, & 403	Hypertension	-	24	19	1	-	-	3	-
430-438	Cerebrovascular	14	303	226	6	14	20	25	12
440	Arteriosclerosis	1	53	29	1	1	2	5	-
460-519	Respiratory	12	366	238	4	16	24	39	7
480-486	Pneumonia	10	153	96	3	10	9	15	3
487	Influenza	-	-	-	-	-	-	-	-
490-491	Bronchitis	-	5	2	-	-	-	-	-
492	Emphysema	-	16	9	-	1	2	-	-
493	Asthma	-	10	7	-	-	2	3	-
531-533	Ulcer of stomach and duodenum	1	8	4	-	3	3	1	2
550-553, & 560	Hernia & intestinal obstruction	-	9	6	-	1	1	-	-
571	Chronic liver disease and cirrhosis	1	44	32	-	2	1	3	-
580-589	Nephritis, nephrotic syndrome & nephrosis	4	27	21	1	5	1	-	-
590	Kidney infection	-	4	3	-	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	27	23	1	1	1	4	-
760-779	Perinatal conditions	-	24	16	1	-	-	6	-
780-799	Ill-defined	1	116	93	2	3	3	1	-
Residual	Other diseases	10	347	229	8	19	13	38	9
E800-949	Unintentional Injury	3	135	97	3	2	11	21	1
E810-825	Motor vehicle	2	37	26	3	1	6	10	-
E880-888	Falls	1	27	18	-	-	2	6	-
E950-959	Suicide & self-inflicted injury	2	67	46	1	3	6	9	-
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	17	13	-	-	-	1	-
E980-999	Other violent deaths	-	10	9	-	-	-	-	1

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Roseau	St. Louis	Duluth	Scott	Sherburne	Sibley	Stearns
DEATHS - Total		140	2,132	1,060	270	215	145	642
Rate:	Age & sex adjusted	8.7	8.5	9.5	8.3	9.4	7.4	6.2
Rate:	Sex adjusted-age specific							
	Under 5 years	1.6	2.6	4.6	1.7	1.8	1.5	1.3
	5-14 years	0.0	0.2	0.2	0.3	0.0	1.1	0.1
	15-24 years	2.8	0.5	0.7	0.5	0.2	0.4	0.5
	25-44 years	2.1	0.8	1.3	1.0	0.8	1.3	1.0
	45-64 years	6.8	9.0	10.2	5.8	5.4	7.7	5.1
	65 years and over	50.7	51.6	55.4	54.5	64.7	42.9	39.0
Sex:	Male	74	1,080	512	137	106	79	371
	Female	66	1,052	548	133	109	66	271
Race:	White	133	2,104	1,047	268	215	145	639
	Black	-	8	7	-	-	-	-
	Indian	5	18	6	1	-	-	-
	Other & Unknown	2	2	-	1	-	-	3
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	3	16	7	3	1	-	4
010-018	Tuberculosis	-	1	1	-	-	-	-
140-208	Neoplasms-malignant	28	471	233	59	37	24	127
150-159	Digestive	4	125	55	11	9	5	36
160-165	Respiratory	5	115	54	19	12	5	34
174-175	Breast	3	40	23	7	5	5	9
179-187	Genital	6	52	32	5	4	4	14
188-189	Urinary	3	24	11	1	-	1	4
204-208	Leukemia	1	12	5	2	1	1	1
250	Diabetes mellitus	5	45	15	13	4	3	8
390-448	Major cardiovascular	54	999	504	105	102	61	320
390-398	Rheumatic heart	-	11	5	-	-	-	4
402,404	Hypertensive heart	-	22	9	1	-	-	9
410-414	Ischemic heart	24	453	232	58	49	32	177
420-429	Other heart	13	305	152	21	27	14	56
400-401, & 403	Hypertension	1	5	3	2	-	-	3
430-438	Cerebrovascular	14	152	76	20	17	14	53
440	Arteriosclerosis	-	13	6	1	8	-	11
460-519	Respiratory	18	198	101	23	26	8	61
480-486	Pneumonia	12	79	44	5	17	5	30
487	Influenza	-	2	-	1	-	-	-
490-491	Bronchitis	-	7	-	1	1	-	2
492	Emphysema	1	27	17	-	1	1	7
493	Asthma	-	4	2	3	-	-	1
531-533	Ulcer of stomach and duodenum	-	3	2	-	1	-	5
550-553, & 560	Hernia & intestinal obstruction	-	10	5	-	-	-	2
571	Chronic liver disease and cirrhosis	-	25	12	1	-	1	2
580-589	Nephritis, nephrotic syndrome & nephrosis	-	15	2	3	3	4	4
590	Kidney infection	-	2	-	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-
740-759	Congenital anomalies	-	8	7	2	3	-	3
760-779	Perinatal conditions	1	15	12	1	3	-	6
780-799	Ill-defined	1	59	34	7	3	21	7
Residual	Other diseases	16	173	80	29	23	12	42
E800-949	Unintentional Injury	14	61	28	18	7	8	39
E810-825	Motor vehicle	9	18	6	7	3	4	24
E880-888	Falls	2	18	11	1	1	1	3
E950-959	Suicide & self-inflicted injury	-	25	14	3	2	3	7
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	5	3	1	-	-	1
E980-999	Other violent deaths	-	2	1	1	-	-	4

Table 45
SELECTED MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Steele	Stevens	Swift	Todd	Traverse	Wabasha	Wadena
DEATHS - Total		245	107	161	233	65	185	172
Rate:	Age & sex adjusted	7.4	7.9	8.9	7.5	7.7	7.1	8.8
Rate:	Sex adjusted-age specific							
	Under 5 years	1.4	0.0	0.0	2.0	0.0	0.0	3.0
	5-14 years	0.7	0.0	1.0	0.2	0.0	0.3	0.5
	15-24 years	1.4	1.6	0.5	0.7	1.3	1.3	1.5
	25-44 years	1.1	1.7	2.2	0.8	0.0	1.5	0.6
	45-64 years	7.1	4.3	8.7	6.0	4.5	4.3	4.0
	65 years and over	43.2	51.2	52.3	47.3	53.7	45.2	59.0
Sex:	Male	125	54	95	137	41	89	94
	Female	120	53	66	96	24	96	78
Race:	White	244	106	161	233	65	183	170
	Black	1	-	-	-	-	1	-
	Indian	-	1	-	-	-	-	1
	Other & Unknown	-	-	-	-	-	1	1
ICDA**	CAUSE OF DEATH							
001-139	Infective-parasitic	4	1	-	2	2	2	-
010-018	Tuberculosis	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	50	22	34	53	17	35	34
150-159	Digestive	14	3	9	19	2	13	14
160-165	Respiratory	8	7	5	11	6	7	7
174-175	Breast	6	2	3	6	-	3	-
179-187	Genital	6	3	9	5	4	5	6
188-189	Urinary	3	-	1	1	-	1	1
204-208	Leukemia	2	2	-	2	1	1	-
250	Diabetes mellitus	3	6	-	4	-	4	2
390-448	Major cardiovascular	122	55	79	91	36	89	86
390-398	Rheumatic heart	1	-	-	1	-	1	-
402,404	Hypertensive heart	-	-	-	-	-	-	-
410-414	Ischemic heart	69	24	35	48	17	43	51
420-429	Other heart	20	17	21	20	9	16	15
400-401, & 403	Hypertension	-	-	1	1	-	-	1
430-438	Cerebrovascular	26	11	14	16	7	19	14
440	Arteriosclerosis	5	-	-	2	2	4	1
460-519	Respiratory	21	4	23	19	3	21	15
480-486	Pneumonia	7	1	12	10	1	2	9
487	Influenza	-	-	-	-	-	-	1
490-491	Bronchitis	-	-	-	-	-	-	-
492	Emphysema	3	-	-	-	-	1	1
493	Asthma	-	-	3	-	-	-	-
531-533	Ulcer of stomach and duodenum	1	-	-	1	-	-	1
550-553, & 560	Hernia & intestinal obstruction	1	-	1	-	-	1	1
571	Chronic liver disease and cirrhosis	1	1	1	1	-	1	2
580-589	Nephritis, nephrotic syndrome & nephrosis	2	-	1	1	2	2	2
590	Kidney infection	-	-	1	-	-	-	-
630-676	Pregnancy, childbirth & puerperium	1	-	-	-	-	-	-
740-759	Congenital anomalies	5	-	-	3	-	-	3
760-779	Perinatal conditions	-	-	-	-	-	-	-
780-799	Ill-defined	3	1	1	20	1	-	6
Residual	Other diseases	16	11	15	24	4	20	9
E800-949	Unintentional Injury	12	5	4	11	-	10	7
E810-825	Motor vehicle	8	2	2	9	-	4	2
E880-888	Falls	1	2	1	-	-	1	3
E950-959	Suicide & self-inflicted injury	3	-	1	3	-	-	3
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	-	-	-	-	-	-
E980-999	Other violent deaths	-	1	-	-	-	-	1

Table 45
SELECTED RESIDENT MORTALITY STATISTICS BY COUNTY AND CITIES OVER 90,000*, MINNESOTA, 1987 (CONT.)

		Waseca	Wash-ington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine	Unknown
DEATHS - Total		147	662	159	70	397	441	140	2
Rate:	Age & sex adjusted	7.0	9.4	9.5	6.7	8.0	8.0	6.9	0.0
Rate:	Sex adjusted-age specific								
	Under 5 years	0.6	1.7	1.0	0.0	1.1	1.7	0.0	0.0
	5-14 years	0.0	0.3	0.7	0.0	0.3	0.3	0.0	0.0
	15-24 years	0.7	0.5	1.3	0.0	0.4	1.3	0.0	0.0
	25-44 years	1.0	1.1	1.3	1.0	1.6	0.9	1.3	0.0
	45-64 years	7.8	6.3	5.3	3.8	6.2	6.4	5.4	0.0
	65 years and over	41.6	62.3	62.8	46.3	50.1	50.1	45.0	0.0
Sex:	Male	70	349	94	39	169	231	78	2
	Female	77	313	65	31	228	210	62	-
Race:	White	147	651	159	70	397	441	139	2
	Black	-	5	-	-	-	-	-	-
	Indian	-	3	-	-	-	-	1	-
	Other & Unknown	-	3	-	-	-	-	-	-
ICDA**	CAUSE OF DEATH								
001-139	Infective-parasitic	1	10	2	-	8	7	-	-
010-018	Tuberculosis	-	-	-	-	-	-	-	-
140-208	Neoplasms-malignant	38	173	38	17	91	83	28	-
150-159	Digestive	5	42	10	4	28	23	8	-
160-165	Respiratory	7	51	7	5	16	22	8	-
174-175	Breast	5	9	2	3	9	6	4	-
179-187	Genital	6	16	9	3	3	9	3	-
188-189	Urinary	2	6	1	1	7	3	-	-
204-208	Leukemia	3	8	3	-	5	6	1	-
250	Diabetes mellitus	7	20	-	1	5	6	3	-
390-448	Major cardiovascular	76	268	81	29	189	194	72	-
390-398	Rheumatic heart	1	2	1	-	3	1	-	-
402,404	Hypertensive heart	1	3	1	-	1	3	-	-
410-414	Ischemic heart	35	136	58	18	103	94	40	-
420-429	Other heart	27	59	7	3	44	44	9	-
400-401, & 403	Hypertension	-	3	-	-	2	2	-	-
430-438	Cerebrovascular	8	44	9	6	26	34	19	-
440	Arteriosclerosis	-	10	2	1	2	5	2	-
460-519	Respiratory	5	37	10	9	32	33	19	-
480-486	Pneumonia	3	13	6	6	19	14	9	-
487	Influenza	-	-	-	1	-	-	-	-
490-491	Bronchitis	-	-	-	-	1	1	-	-
492	Emphysema	-	2	-	-	-	1	1	-
493	Asthma	-	1	-	-	1	-	-	-
531-533	Ulcer of stomach and duodenum	-	1	-	1	2	1	-	-
550-553, & 560	Hernia & intestinal obstruction	-	1	1	-	1	1	-	-
571	Chronic liver disease and cirrhosis	2	7	3	1	1	5	1	-
580-589	Nephritis, nephrotic syndrome & nephrosis	1	5	3	-	3	4	1	-
590	Kidney infection	-	2	1	-	1	-	-	-
630-676	Pregnancy, childbirth & puerperium	-	-	-	-	-	-	-	-
740-759	Congenital anomalies	1	9	-	-	1	6	-	-
760-779	Perinatal conditions	-	8	-	-	1	3	-	-
780-799	Ill-defined	-	15	2	7	3	11	-	-
Residual	Other diseases	13	37	11	4	37	37	9	-
E800-949	Unintentional Injury	2	42	4	1	16	34	5	-
E810-825	Motor vehicle	2	17	3	-	6	21	2	-
E880-888	Falls	-	6	-	1	6	6	-	-
E950-959	Suicide & self-inflicted injury	1	20	3	-	6	15	2	-
E960-978	Homicide & injury purposely inflicted by other persons & legal intervention	-	7	-	-	-	-	-	2
E980-999	Other violent deaths	-	-	-	-	-	1	-	-

* As of the 1980 Census
** For detailed causes see Table 40

Marriage

Table 46
MARRIAGES REPORTED IN MINNESOTA BY STATE OF RESIDENCE
1987

State of Residence	Marriages Reported		Percent of Marriages Reported	
	Residence of Bride	Residence of Groom	Residence of Bride	Residence of Groom
Total	33,683	33,683	100.0	100.0
Minnesota*	31,414	30,236	93.3	89.8
Other Areas and Unknown	2,269	3,447	6.7	10.2
Iowa	121	203	0.4	0.6
North Dakota	293	413	0.9	1.2
South Dakota	114	165	0.3	0.5
Wisconsin	350	517	1.0	1.5
Other States	1,307	2,038	3.9	6.1
U.S. Territories	1	2	0.0	0.0
Other Nations	83	109	0.2	0.3
Unknown	-	-	-	-

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* The resident totals are not true resident totals for Minnesota. Information is not available at the present time on the number of Minnesotans who marry in other States.

Table 47
MARRIAGES BY COUNTY OF OCCURRENCE
MINNESOTA, 1987

County	Marriages	County	Marriages
State Total	33,683		
Aitkin	63	Martin	144
Anoka	1,516	Meeker	124
Becker	225	Mille Lacs	116
Beltrami	315	Morrison	183
Benton	64	Mower	274
Big Stone	39	Murray	41
Blue Earth	511	Nicollet	130
Brown	193	Nobles	134
Carlton	217	Norman	38
Carver	305	Olmsted	924
Cass	93	Otter Tail	235
Chippewa	84	Pennington	117
Chisago	176	Pine	161
Clay	468	Pipestone	81
Clearwater	60	Polk	283
Cook	37	Pope	58
Cottonwood	85	Ramsey	4,210
Crow Wing	381	Red Lake	35
Dakota	1,087	Redwood	91
Dodge	83	Renville	78
Douglas	228	Rice	333
Faribault	87	Rock	93
Fillmore	116	Roseau	109
Freeborn	274	St. Louis	1,312
Goodhue	241	Scott	493
Grant	26	Sherburne	224
Hennepin	10,750	Sibley	61
Houston	114	Stearns	1,153
Hubbard	120	Steele	230
Isanti	177	Stevens	87
Itasca	293	Swift	55
Jackson	62	Todd	99
Kanabec	80	Traverse	28
Kandiyohi	260	Wabasha	75
Kittson	25	Wadena	167
Koochiching	109	Waseca	104
Lac Qui Parle	59	Washington	870
Lake	72	Watonwan	64
Lake of the Woods	37	Wilkin	48
Le Sueur	102	Winona	364
Lincoln	27	Wright	412
Lyon	191	Yellow Medicine	60
McLeod	239		
Mahnomen	47		
Marshall	47		

Table 48
MARRIAGES OCCURRING IN MINNESOTA BY RACE OF BRIDE AND GROOM, 1987

	GROOM								
BRIDE	TOTAL	WHITE	BLACK	INDIAN	CHINESE	JAPANESE	OTHER* ASIAN	OTHER	UNKNOWN
TOTAL	33,683	29,132	715	211	44	16	230	23	3,312
WHITE	29,117	28,438	245	115	15	12	76	13	203
BLACK	499	60	425	1	-	-	3	-	10
INDIAN	231	128	8	84	-	-	-	1	10
CHINESE	39	13	-	-	24	-	2	-	-
JAPANESE	17	11	-	-	-	3	-	-	3
OTHER ASIAN*	224	74	3	-	3	-	140	1	3
OTHER	38	27	2	-	1	-	-	4	4
UNKNOWN	3,518	381	32	11	1	1	9	4	3,079

* Includes Pacific Islanders

Table 49
MARRIAGES OCCURRING IN MINNESOTA BY AGE OF BRIDE AND GROOM, 1987

		Groom's Age												
Bride's Age •	Total	Under 18	18-19	20	21-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Un-known*
Total	33,683	26	833	1,149	9,406	10,283	5,063	2,822	1,471	890	551	406	277	501	5
Under 18	240	12	87	45	73	16	6	1	-	-	-	-	-	-	-
18-19	2,589	11	502	472	1,173	352	60	12	5	1	-	-	-	1	-
20	2,173	1	128	301	1,243	413	69	11	1	3	1	1	-	-	1
21-24	11,016	2	94	273	5,558	4,003	799	216	45	12	7	3	2	2	-
25-29	8,714	-	15	45	1,125	4,372	2,119	731	209	69	16	5	2	3	3
30-34	4,073	-	4	13	177	889	1,471	957	369	120	48	17	4	4	-
35-39	2,078	-	3	-	44	191	406	655	440	196	91	38	8	6	-
40-44	1,102	-	-	-	7	38	111	180	294	248	129	63	20	12	-
45-49	630	-	-	-	5	3	18	50	85	181	141	87	43	17	-
50-54	347	-	-	-	-	1	2	7	20	48	87	101	45	36	-
55-59	220	-	-	-	-	-	1	1	3	8	19	69	63	56	-
60-64	176	-	-	-	-	-	-	1	-	2	5	12	65	91	-
65+	316	-	-	-	-	1	-	-	-	1	7	10	25	272	-
Unknown*	9	-	-	-	1	4	1	-	-	1	-	-	-	1	1

* Includes age specified as legal

Divorce

DISSOLUTIONS AND ANNULMENTS IN MINNESOTA

The nine tables which follow depict selected characteristics of innesota's population which experienced divorce in 1987. Interpretation of hese data should be carefully executed due to the large amount of missing ata in some tables. These data are missing due to the recent changes and ull implementation (1985) of marriage dissolution reporting in Minnesota.

Table 51 shows age of wife versus age of husband for dissolutions and nnulments occurring in 1987. Twenty-two percent of all divorces occurred o women aged 25-29. Nineteen percent of all divorces also occurred to men ged 25-29. The greatest percentage of total divorces for husbands (19.9%) ccurred in the 30-34 age group.

Table 53 indicates educational attainment levels of divorce subjects. he husbands' highest level of education was high school in 27 percent, hereas 30 percent of all wives involved in divorce completed high school. ome post high school education was evident in approximately 21 percent of ll divorces for men and 20 percent for women. Graduate level education was ore prevalent for husbands.

Tables 54 and 55 indicate custody arrangement for children of couples ho divorced in 1987. These tables should be used cautiously since numerous ecords were omitted from the custody arrangement analyses due to nconsistencies within records or missing data elements. The following riteria were used to omit records:

1. Of the 14,931 divorce records, 1,705 records contain only indexing information. These were rejected since all other data elements were blank.

2. Five thousand four hundred twenty records of the remaining 13,226 were rejected because there was no mention of children residing in the household at separation date.

3. Two hundred fifty six cases in which children were indicated at the time of separation but were not products of the current marriage were eliminated.

4. Of the remaining cases for which children were indicated, 7,031 contained custody information. Two of those 7,031 cases were omitted because the number of children at time of separation was unknown.

Judicial decision about placement of children by family size is depicted Table 54. All children were awarded to the wife in 77 percent of all vorce cases for which custody was known, while husbands were awarded stody of all children in nine percent of all cases.

The total number of children affected by divorce in Minnesota--after itting records by the previously described methods--was 12,400. Custody rangements for those children are indicated in Table 55.

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Please note that differentiation must be made between Table 54 and Table 55 in that Table 54 pertains to cases with children and Table 55 depicts total number of children affected.

Table 56 indicates average monthly amounts of child support awarded by family size. On a per child basis, support awards decreased as family size increased with the exception of those cases in which five children were involved. Because of the small numbers of cases with five or more children, caution is advised in interpreting the data.

Approximately 47 percent of all divorces in 1987 occurred for marriages in which both partners had not been previously married. Table 57 indicates number of prior marriages for husbands and wives. More than half of all divorces in 1987 occurred for marriages of less than ten years duration as indicated in Table 58.

Table 50
DISSOLUTIONS AND ANNULMENTS BY COUNTY OF OCCURRENCE AND TYPE OF DECREE
MINNESOTA, 1987

County	Total	Dissolutions	Annulments
State Total	14,931	14,914	17
Aitkin	43	43	-
Anoka	1,014	1,014	-
Becker	100	100	-
Beltrami	146	146	-
Benton	70	70	-
Big Stone	15	15	-
Blue Earth	135	135	-
Brown	69	69	-
Carlton	112	112	-
Carver	119	119	-
Cass	72	72	-
Chippewa	33	33	-
Chisago	128	128	-
Clay	146	146	-
Clearwater	19	19	-
Cook	23	23	-
Cottonwood	27	27	-
Crow Wing	195	195	-
Dakota	943	942	1
Dodge	44	44	-
Douglas	84	84	-
Faribault	48	48	-
Fillmore	47	47	-
Freeborn	92	92	-
Goodhue	126	126	-
Grant	18	18	-
Hennepin	4,163	4,153	10
Houston	46	46	-
Hubbard	32	32	-
Isanti	74	74	-
Itasca	162	162	-
Jackson	31	31	-
Kanabec	33	33	-
Kandiyohi	101	101	-
Kittson	14	14	-
Koochiching	74	74	-
Lac Qui Parle	11	11	-
Lake	32	32	-
Lake of the Woods	15	15	-
Le Sueur	42	42	-
Lincoln	14	14	-
Lyon	65	65	-
McLeod	85	85	-
Mahnomen	9	9	-
Marshall	16	16	-

Table 50
DISSOLUTIONS AND ANNULMENTS BY COUNTY OF OCCURENCE AND TYPE OF DECREE
MINNESOTA, 1987 (CONT.)

County	Total	Dissolutions	Annulments
Martin	85	84	1
Meeker	36	36	-
Mille Lacs	59	59	-
Morrison	72	71	1
Mower	124	124	-
Murray	12	12	-
Nicollet	73	73	-
Nobles	43	43	-
Norman	24	24	-
Olmsted	384	384	-
Ottertail	151	151	-
Pennington	49	49	-
Pine	69	69	-
Pipestone	16	16	-
Polk	42	41	1
Pope	21	21	-
Ramsey	1,886	1,884	2
Red Lake	9	9	-
Redwood	32	32	-
Renville	28	28	-
Rice	152	152	-
Rock	21	21	-
Roseau	38	38	-
St. Louis	736	736	-
Scott	206	206	-
Sherburne	125	125	-
Sibley	35	35	-
Stearns	269	269	-
Steele	95	95	-
Stevens	21	21	-
Swift	24	24	-
Todd	61	61	-
Traverse	14	14	-
Wabasha	35	35	-
Wadena	36	36	-
Waseca	58	58	-
Washington	489	489	-
Watonwan	42	42	-
Wilkin	22	22	-
Winona	109	108	1
Wright	222	222	-
Yellow Medicine	19	19	-

Table 51
DISSOLUTIONS AND ANNULMENTS BY AGE OF WIFE VERSUS AGE OF HUSBAND
MINNESOTA OCCURRENCE, 1987

		Husband's Age										
Wife's Age	Total	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & Over	Unknown
Total	14,931	23	1,067	2,905	2,973	2,606	1,869	1,158	689	381	238	247	775
15-19	151	9	108	26	5	2	1	-	-	-	-	-	-
20-24	1,925	12	754	896	192	41	20	3	-	-	-	-	7
25-29	3,326	2	161	1,632	1,105	300	83	23	6	2	2	-	10
30-34	2,969	-	25	266	1,365	925	259	77	25	5	6	2	14
35-39	2,299	-	9	52	246	1,074	658	162	58	19	9	5	7
40-44	1,601	-	4	17	43	206	714	435	120	32	17	7	6
45-49	929	-	1	2	5	25	97	406	272	77	29	12	3
50-54	370	-	1	1	1	8	17	36	160	102	27	15	2
55-59	261	-	-	-	1	3	1	8	32	115	56	42	3
60-64	171	-	-	-	1	-	1	4	12	18	70	63	2
65 & Over	135	-	-	-	-	1	1	-	2	8	22	99	2
Unknown	794	-	4	13	9	21	17	4	2	3	-	2	719

Table 52
DISSOLUTIONS AND ANNULMENTS BY RACE OF WIFE VERSUS RACE OF HUSBAND
MINNESOTA OCCURRENCE, 1987

	Husband's Race										
Wife's Race	Total	White	Black	Indian	Chinese	Japanese	Hawaiian	Non-White	Filipino	Other Asian*	Unknown
Total	14,931	7,535	314	85	10	1	3	1	9	53	6,920
White	7,618	7,417	101	36	2	1	3	1	5	16	36
Black	219	12	205	-	1	-	-	-	-	-	1
Indian	79	30	1	44	-	-	-	-	-	-	4
Chinese	9	3	1	-	5	-	-	-	-	-	-
Japanese	5	4	-	-	-	-	-	-	-	1	-
Hawaiian	-	-	-	-	-	-	-	-	-	-	-
Other Non-White	1	1	-	-	-	-	-	-	-	-	-
Filipino	14	9	-	-	-	-	-	-	4	-	1
Other Asian*	64	26	2	-	1	-	-	-	-	35	-
Unknown	6,922	33	4	5	1	-	-	-	-	1	6,878

* Includes Pacific Islanders

Table 53
DISSOLUTIONS AND ANNULMENTS BY EDUCATIONAL ATTAINMENT OF WIFE VERSUS EDUCATIONAL ATTAINMENT OF HUSBAND
MINNESOTA OCCURRENCE, 1987

	Husband's Educational Attainment					
Wife's Educational Attainment	Total	Less Than 12 Years	High School Graduate	1-4 Years of College	5+ Years of College	Unknown
Total	14,931	934	4,093	2,562	534	6,808
Less Than 12 Years	718	243	352	75	6	42
High School Graduate	4,422	529	2,840	778	56	219
1-4 Years College	2,657	128	689	1,449	248	143
5+ Years College	388	3	46	138	187	14
Unknown	6,746	31	166	122	37	6,390

Table 54
NUMBER OF CHILDREN IN FAMILY BY CUSTODY AWARD
MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1987

	Number of Dissolution Cases					
Number of Children in Family	All Children Awarded to Wife	All Children Awarded to Husband	Children's Custody Shared	All Children Awarded to Non-Parental Party	Custody of Children Split*	Total Cases
1	2,448	298	335	12	-	3,093
2	2,161	244	275	4	118	2,802
3	652	84	80	1	68	885
4	152	17	13	-	23	205
5	27	4	2	-	4	37
6	6	-	-	-	-	6
7	1	-	-	-	-	1
Total	5,447	647	705	17	213	7,029
Percent of Total	77.5%	9.2%	10.0%	0.2%	3.0%	100.0%

* More than one party is awarded custody of one or more children in a multiple child family.

Table 55
NUMBER OF CHILDREN IN FAMILY VERSUS TOTAL NUMBER OF CHILDREN WHOSE CUSTODY WAS AWARDED TO WIFE, HUSBAND, BOTH OR NON-PARENTAL PARTY MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1987

	Number of Children Awarded				
Number of Children in Family	Number Awarded To Wife	Number Awarded To Husband	Number In Shared Custody	Number Awarded to Non-Parental Party	Total Number of Children
1	2,448	298	335	12	3,093
2	4,438	599	556	11	5,604
3	2,060	336	253	6	2,655
4	657	102	55	6	820
5	147	28	10	-	185
6	36	-	-	-	36
7	7	-	-	-	7
Total	9,793	1,363	1,209	35	12,400
Percent of Total	79.0%	11.0%	9.8%	0.3%	100.0%

Table 56
AVERAGE MONTHLY AMOUNT OF CHILD SUPPORT AWARDED* BY NUMBER OF CHILDREN, MINNESOTA DISSOLUTIONS AND ANNULMENTS, 1987

Number of Children	Number of Cases	Average Total Support Awarded	Average Support Awarded Per Child
1	2,432	$270	$270
2	2,208	$357	$179
3	690	$411	$137
4	150	$424	$106
5	26	$655	$131
6	1	$320	$ 53

The average amount of monthly child support awarded per child (9,654 total children) was $187.00.

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* Based on 5,507 cases in which the amount of child support is known.

Table 57
DISSOLUTIONS AND ANNULMENTS BY NUMBER OF THIS MARRIAGE FOR WIFE VERSUS NUMBER OF THIS MARRIAGE FOR HUSBAND MINNESOTA OCCURRENCE, 1987

Wife's Number This Marriage	Husband's Number This Marriage							
	Total	First	Second	Third	Fourth	Fifth	Sixth or Greater	Unknown
Total	14,931	7,855	1,875	332	57	9	7	4,796
First	7,929	7,024	762	85	6	2	1	49
Second	1,856	724	905	151	33	3	3	37
Third	332	74	154	76	16	2	3	7
Fourth	59	12	28	14	1	2	-	2
Fifth	16	5	7	3	1	-	-	-
Sixth or Greater	5	2	2	1	-	-	-	-
Unknown	4,734	14	17	2	-	-	-	4,701

Table 58
DISSOLUTIONS AND ANNULMENTS BY DURATION OF MARRIAGE
MINNESOTA OCCURRENCE, 1987

Years Married	Number of Dissolutions	Percent of Total
Less than 1	286	1.9
1-4	4,057	27.2
5-9	3,772	25.3
10-14	1,988	13.3
15-19	1,301	8.7
20-24	860	5.8
25-29	496	3.3
30-34	226	1.5
35-39	120	0.8
40 or more	95	0.6
Unknown Duration	1,730	11.6
TOTAL	14,931	100.0

Occupational Illness and Injury

Table 59
NUMBER OF INJURIES AND ILLNESSES BY MAJOR INDUSTRIAL CATEGORY MINNESOTA, 1986 AND 1987

Industrial Category	Number of Injuries and Illnesses 1986	Percent of Total	1987	Percent of Total	Percent Change 1986-1987
Private Sector					
1. Agriculture, Forestry and Fisheries	746	1.6	762	1.6	+ 2.1
2. Mining	197	0.4	208	0.4	+ 5.6
3. Construction	5,174	11.1	5,296	11.0	+ 2.4
4. Manufacturing	13,864	29.7	14,684	30.4	+ 5.9
5. Transportation and Public Utilities	3,440	7.4	3,405	7.0	- 1.0
6. Wholesale and Retail Trades	9,446	20.2	9,443	19.5	0.0
7. Finance, Insurance and Real Estate	833	1.8	765	1.6	- 8.2
8. Services	8,513	18.2	9,231	19.1	+ 8.4
9. Public Sector*	4,490	9.6	4,527	9.4	+ 0.8
Nonclassified Industries	13	0.0	7	0.0	-46.2
Total	46,716	100.0	48,328	100.0	+ 3.5

* Industrial categories are not differentiated. Includes all government and public administration data; regardless of industrial category.

Table 60

ANNUAL AVERAGE EMPLOYMENT, PERCENT OF TOTAL EMPLOYMENT AND RATE OF OCCUPATIONAL INJURIES AND ILLNESSES PER 1,000 WORKERS BY INDUSTRIAL CATEGORY*, MINNESOTA 1986 AND 1987

Industrical Category	1986	1987
Mining		
Annual Average Employment	6,541	6,000
Percent	0.3	0.3
Rate of Injuries Per 1,000 Workers	30.1	34.7
Construction		
Annual Average Employment	74,560	81,900
Percent	3.9	4.2
Rate of Injuries Per 1,000 Workers	69.4	64.7
Manufacturing		
Annual Average Employment	369,022	374,800
Percent	19.5	19.1
Rate of Injuries Per 1,000 Workers	37.6	39.2
Transportation and Public Utilities		
Annual Average Employment	97,504	100,400
Percent	5.2	5.1
Rate of Injuries Per 1,000 Workers	35.3	33.9
Wholesale and Retail Trades		
Annual Average Employment	470,432	488,100
Percent	24.9	24.9
Rate of Injuries Per 1,000 Workers	20.1	19.3
Finance, Insurance and Real Estate		
Annual Average Employment	116,268	119,800
Percent	6.1	6.1
Rate of Injuries Per 1,000 Workers	7.2	6.4
Services		
Annual Average Employment	447,778	474,200
Percent	23.7	24.2
Rate of Injuries Per 1,000 Workers	19.0	19.5
Public Administration and Government		
Annual Average Employment	309,054	314,200
Percent	16.3	16.0
Rate of Injuries Per 1,000 Workers	14.5	14.4
Total - Average Annual Employment	1,891,159	1,959,500
Total - Rate of Injuries Per 1,000 Workers	24.3	24.7

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*Occupational injury and illness rates were calculated by dividing the number of injuries for an industrial category by the average annual employment and are reported as rate per 1,000 workers. Data pertaining to the agricultural industry was suppressed due to the unreliability of the occupation estimates available at the time of publication.

Table 61
NUMBER OF INJURIES AND ILLNESSES BY MAJOR OCCUPATIONAL CATEGORY MINNESOTA, 1986 AND 1987

Occupational Category	Number of Injuries and Illnesses 1986	Percent of Total	1987	Percent of Total	Percent Change 1986-1987
1. Professional and Technical	2,122	4.5	1,897	3.9	-10.6
2. Managers and Administrators	2,126	4.6	2,039	4.2	- 4.1
3. Sales Workers	893	1.9	899	1.9	+ 0.7
4. Clerical Workers	2,794	6.0	2,868	5.9	+ 2.6
5. Crafts Workers	8,846	18.9	8,617	17.8	- 2.6
6. Operatives	11,991	25.7	12,240	25.3	+ 2.1
7. Laborers	6,960	14.9	7,832	16.2	+12.5
8. Farmers and Farm Laborers	321	0.7	269	0.6	-16.2
9. Service Workers	9,516	20.4	9,810	20.3	+ 3.1
Not Reported	1,147	2.5	1,857	3.8	+61.9
Total	46,716	100.0	48,328	100.0	+ 3.5

Table 62
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY TYPE OF ACCIDENT MINNESOTA, 1986 AND 1987

Type of Accident	Number of Injuries and Illnesses 1986	Percent of Total	1987	Percent of Total	Percent Change 1986-1987
Struck Against or By Object	8,501	18.2	8,639	17.9	+ 1.6
Fall	6,959	14.9	6,802	14.1	- 2.3
Caught In, Under or Between Objects	1,711	3.7	1,787	3.7	+ 4.4
Abraded	995	2.1	902	1.9	- 9.3
Motion	2,749	5.9	2,696	5.6	- 1.9
Over Exertion	15,636	33.5	17,056	35.3	+ 9.1
Contact with Electricity	83	0.2	82	0.2	- 1.2
Contact with Extreme Temperature	791	1.7	802	1.7	+ 1.4
Contact with Radiation Toxics or Caustics	1,054	2.3	1,042	2.2	- 1.1
Public Transportation	5	0.0	10	0.0	+100.0
Motor Vehicle Accidents	1,086	2.3	1,017	2.1	- 6.4
Exposure to Noise	49	0.1	77	0.2	+57.1
Explosion	68	0.1	45	0.1	-33.8
Non-Highway Motor Vehicle Accidents	239	0.5	259	0.5	+ 8.4
Accidents, N.E.C.	604	1.3	487	1.0	-19.4
Unclassified Data	6,186	13.2	6,625	13.7	+ 7.1
Total	46,716	100.0	48,328	100.0	+ 3.5

Table, 63
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY NATURE OF INJURY
MINNESOTA, 1986 AND 1987

	Number of Injuries and Illnesses				Percent Change
Nature of Injury	1986	Percent of Total	1987	Percent of Total	1986-1987
Amputation	96	0.2	78	0.2	-18.8
Laceration	5,159	11.0	4,910	10.2	- 4.8
Contusion	3,249	7.0	3,129	6.5	- 3.7
Abrasion	697	1.5	632	1.3	- 9.3
Heat Burn	837	1.8	830	1.7	- 0.8
Chemical Burn	336	0.7	355	0.7	+ 5.7
Concussion	94	0.2	70	0.1	-25.5
Fracture	2,806	6.0	2,902	6.0	+ 3.4
Dislocation	1,378	2.9	1,350	2.8	- 2.0
Sprain	20,537	44.0	21,826	45.2	+ 6.3
Hernia	909	1.9	936	1.9	+ 3.0
Asphyxia	2	0.0	1	0.0	-50.0
Barometric Effects	3	0.0	3	0.0	0.0
Frostbite, Freezing	10	0.0	5	0.0	-50.0
Heat Stroke	15	0.0	21	0.0	+40.0
Electric Shock	49	0.1	53	0.1	+ 8.2
Hearing Loss	71	0.2	95	0.2	+33.8
Infective Diseases	151	0.3	91	0.2	-39.7
Respiratory Diseases	75	0.2	52	0.1	-30.7
Pneumoconiosis	7	0.0	11	0.0	+57.1
Poisoning	269	0.6	284	0.6	+ 5.6
Mental Diseases	126	0.3	129	0.3	+ 2.4
Nervous System Diseases	733	1.6	888	1.8	+21.1
Neoplasm	4	0.0	7	0.0	+75.0
Radiation Effects	31	0.1	27	0.1	-12.9
Dermatitis	273	0.6	288	0.6	+ 5.5
Circulatory System	118	0.3	121	0.3	+ 2.5
Heart Conditions (Includes Heart Attack)	266	0.6	223	0.5	-16.2
Eye Diseases	38	0.1	48	0.1	+26.3
Inflammation of Joints	1,156	2.5	1,312	2.7	+13.5
Hemorrhoids	16	0.0	12	0.0	-25.0
Multiple Injuries	1,744	3.7	1,934	4.0	+10.9
Unclassified	5,461	11.7	5,705	11.8	+ 4.5
Total	46,716	100.0	48,328	100.0	+ 3.5

Table 64
NUMBER OF OCCUPATIONAL INJURIES AND ILLNESSES BY PART OF BODY INJURED
MINNESOTA, 1986 AND 1987

Part of Body	Number of Injuries and Illnesses 1986	Percent of Total	1987	Percent of Total	Percent Change 1986-1987
Head	1,149	2.5	1,040	2.2	- 9.5
Eye	1,117	2.4	1,018	2.1	- 8.9
Neck	811	1.7	863	1.8	+ 6.4
Upper Extremities, Except Finger	6,538	14.0	6,816	14.1	+ 4.3
Finger	4,084	8.7	4,125	8.5	+ 1.0
Trunk, Except Back	5,043	10.8	5,169	10.7	+ 2.5
Back	14,496	31.0	15,177	31.4	+ 4.7
Lower Extremities, Except Leg	4,076	8.7	4,389	9.1	+ 7.7
Leg	3,740	8.0	3,844	8.0	+ 2.8
Body Systems	1,192	2.6	1,126	2.3	- 5.5
Multiple Parts	3,913	8.4	4,225	8.7	+ 8.0
Body Parts Unclassified	557	1.2	536	1.1	- 3.8
Total	46,716	100.0	48,328	100.0	+ 3.5

Population

POPULATION OF MINNESOTA

Minnesota has grown steadily from 4,075,970 persons in 1980 to 4,245,870 persons in 1987 and has the highest rate of population increase in the Upper Midwest since 1980.[1] Its growth rate of 4.2 percent between 1980 and 1987 was slower than the national growth rate of 7.4 percent, but it exceeded that of any of its immediate neighbors. Among the fifty states, twenty-eight states grew faster than Minnesota between 1980 and 1987. Only four of those 28 states are located in the Northeast and Midwest. New Hampshire, Vermont, Maine, and Kansas are the only "Frostbelt" states which grew faster than Minnesota.

Minnesota remains twenty-first among the states in population size. In absolute numbers, Minnesota's addition of over 169,900 people between 1980 and 1987 was surpassed by 21 other states including the "Frostbelt" states of Missouri, New Jersey and New York.

Minnesota's population change is a result of two factors: natural increase (births minus deaths) and migration. Compared with other states, Minnesota has a stable population. More people usually move out of the state than in, but relatively few move in either direction; natural increase has been the principal source of Minnesota's growth. The birth rate has been declining since 1981. This decline, combined with a fairly stable death rate, is slowing the rate of natural increase. While outmigration is the norm, there can be periods of net inmigration. Slight inmigration occurred during the late 1970s. The data indicate that Minnesota experienced inmigration between 1986 and 1987, but the amount of inmigration is so small that it may reflect estimation error rather than actual inmigration. However, it is clear that after a surge in net outmigration between 1982 and 1984, the rate of outmigration is returning to historically low levels.

Minnesota recorded approximately 469,500 births between April 1, 1980 and April 1, 1987. During the same period, approximately 236,500 deaths were recorded. The difference, or natural increase, was just over 233,000 persons. The highest rates of natural increase are found in the Twin Cities suburbs and the St. Cloud and Rochester areas, reflecting the large number of young families in these areas. The lowest rates of natural increase are found in southwestern Minnesota and some north-central counties. These areas have a high proportion of elderly residents. Norman and Aitkin Counties actually reported more deaths than births during the period between 1980 and 1987.

Although natural increase added over 233,000 people during the last seven years, the population of Minnesota increased by only 169,900 persons. The difference is due to the net outmigration of almost 63,100 persons. Sixty-three Minnesota counties experienced net outmigration between 1980 and

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[1] These data are derived from the 1980 census and estimates of the 1987 population of Minnesota counties, cities, and townships available from the Office of State Demographer. Adapted from "Population Notes, September, 1988," Minnesota State Planning Agency, Office of State Demographer.

1987, while the remaining 24 counties received more people than they lost. The agricultural areas in the south and west and certain areas of northeastern Minnesota had the highest rates of outmigration. Lake, Pennington, Red Lake, Koochiching, Traverse and St. Louis Counties all had outmigration rates exceeding twelve percent. Counties surrounding the Twin Cities (Sherburne, Dakota, Scott, Carver, Washington, Chisago, Isanti, Anoka and Wright Counties) and to the west and northwest (Hubbard, Roseau, Kandiyohi, Otter Tail and Douglas Counties) had the highest rates of inmigration.

The growth rate of metropolitan Minnesota continues to accelerate. The metropolitan population grew by an average annual rate of 1.1 percent between 1983 and 1987 versus an average annual rate of 0.7 percent during the first three years of the decade. Over the seven-year period, the metropolitan population increased by more than six percent while the population in nonmetropolitan Minnesota grew only 0.1 percent.

Olmsted County became the eighth Minnesota county with over 100,000 residents when its 1987 population estimate reached 100,459. The other seven counties with populations over 100,000 in order of size are Hennepin, Ramsey, Dakota, Anoka, St. Louis, Washington, and Stearns.

Twelve of the twenty fastest-growing counties in Minnesota are within metropolitan areas. Among those metropolitan counties are eight in the Twin Cities area, all three counties in the St. Cloud area and Olmsted in the Rochester area. With the exception of Kandiyohi County in west-central Minnesota and Pine County, located between Duluth and the Twin Cities, the fastest growing nonmetropolitan counties are in the western lakes region of Minnesota stretching from Douglas County north to Roseau and Lake of the Woods Counties. Counties losing population are found in northeastern Minnesota and along the southern and western borders of the state.

Dakota County edged past Sherburne County and Scott County to become the fastest growing county in Minnesota. Population increased more than 22 percent in all three counties between 1980 and 1987. Five other rapidly growing counties--Washington, Isanti, Chisago, Anoka and Carver--surround the Twin Cities. Roseau County is the only nonmetropolitan county which ranked among the ten fastest growing counties in Minnesota. Lake County, in northeastern Minnesota, had the highest rate of population loss since 1980. Other counties with high rates of population loss include Pennington, Traverse, Koochiching, St. Louis and Cottonwood.

Nine counties had average annual population increases of more than 1,000 persons. All nine counties are located within the Twin Cities, St. Cloud or Rochester metropolitan areas. Dakota County leads the list with a seven-year population increase of 45,220 persons. Hennepin County added 33,273 persons and Anoka County grew by 27,821 persons. The remaining six counties are Washington, Ramsey, Scott, Stearns, Olmsted and Wright.

Between 1980 and 1987, 40 counties recorded population losses. Within the past four years (1983-87), 49 counties have lost population. St. Louis County suffered the largest absolute population loss since the 1980 Census of all Minnesota counties--21,583 persons. Twelve other counties located either in northeastern Minnesota or in the farming areas of southern and western

Minnesota experienced population losses exceeding 1,000 persons during the past seven years.

Fifteen counties are growing more rapidly (or declining less rapidly) than they did during the 1970s, while the rate of growth has slowed (or the rate of decline increased) in the remaining 72. Many counties which experienced extreme population increases or decreases during the 1970s have seen their growth rates moderate in the 1980s. Sherburne, Wright, Chisago and Isanti Counties are still among the fastest growing counties in the state, but they are growing at a much slower rate than during the 1970s. Likewise, several counties in north central Minnesota which experienced rapid growth in the 1970s are now growing at a reduced rate. On the other hand, Hennepin, Ramsey, Mower and several agricultural counties in southwestern and western Minnesota which suffered large population losses during the 1970s have slowed or even reversed those losses.

Please refer to Technical Notes, page four, for explanation of the methodology used to produce age and sex estimates by county.

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STATE TOTAL	4,245,870	345,159	612,666	762,698	1,261,737	737,736	525,874
MALE	2,086,929	177,033	314,988	383,259	636,375	362,951	212,323
FEMALE	2,158,941	168,126	297,678	379,439	625,362	374,785	313,551
NORTHWESTERN REGION	162,123	13,019	26,266	26,913	40,533	29,274	26,118
MALE	81,520	6,668	13,913	13,981	20,790	14,600	11,568
FEMALE	80,603	6,351	12,353	12,932	19,743	14,674	14,550
NORTHEASTERN REGION	317,121	23,204	46,123	51,806	86,548	57,917	51,523
MALE	158,022	12,149	24,458	26,543	44,711	28,809	21,352
FEMALE	159,099	11,055	21,665	25,263	41,837	29,108	30,171
WEST CENTRAL REGION	208,344	16,963	30,771	37,074	51,528	39,237	32,771
MALE	102,952	8,754	15,382	18,941	26,324	19,500	14,051
FEMALE	105,392	8,209	15,389	18,133	25,204	19,737	18,720
CENTRAL REGION	489,435	44,824	81,625	86,571	132,306	82,009	62,100
MALE	244,832	23,142	41,974	44,106	67,453	41,279	26,878
FEMALE	244,603	21,682	39,651	42,465	64,853	40,730	35,222
SOUTHWESTERN REGION	298,564	25,049	45,048	46,691	73,381	56,281	52,114
MALE	148,196	13,018	23,395	24,112	37,732	27,906	22,033
FEMALE	150,368	12,031	21,653	22,579	35,649	28,375	30,081
SOUTH CENTRAL REGION	220,205	17,979	31,268	42,136	56,341	38,749	33,732
MALE	108,946	9,215	16,561	21,125	29,330	19,006	13,709
FEMALE	111,259	8,764	14,707	21,011	27,011	19,743	20,023
SOUTHEASTERN REGION	414,846	34,496	60,417	74,271	114,237	73,477	57,948
MALE	202,508	17,730	30,947	35,723	58,050	36,392	23,666
FEMALE	212,338	16,766	29,470	38,548	56,187	37,085	34,282
METROPOLITAN REGION	2,135,232	169,625	291,148	397,236	706,863	360,792	209,568
MALE	1,039,953	86,357	148,358	198,728	351,985	175,459	79,066
FEMALE	1,095,279	83,268	142,790	198,508	354,878	185,333	130,502

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
AITKIN	13,311	932	1,927	1,815	2,997	2,675	2,965
MALE	6,620	530	926	1,006	1,458	1,333	1,367
FEMALE	6,691	402	1,001	809	1,539	1,342	1,598
ANOKA	223,819	20,547	40,543	40,503	80,284	33,522	8,420
MALE	112,819	10,510	21,092	20,402	40,591	16,799	3,425
FEMALE	111,000	10,037	19,451	20,101	39,693	16,723	4,995
BECKER	31,211	2,796	5,112	4,504	8,273	5,968	4,558
MALE	15,796	1,493	2,628	2,487	4,142	3,052	1,994
FEMALE	15,415	1,303	2,484	2,017	4,131	2,916	2,564
BELTRAMI	33,884	2,748	5,382	7,455	8,647	5,683	3,969
MALE	17,191	1,365	2,945	3,819	4,502	2,869	1,691
FEMALE	16,693	1,383	2,437	3,636	4,145	2,814	2,278
BENTON	27,884	2,862	4,465	5,654	8,023	4,320	2,560
MALE	13,897	1,455	2,273	2,796	4,078	2,187	1,108
FEMALE	13,987	1,407	2,192	2,858	3,945	2,133	1,452
BIG STONE	7,575	630	1,145	1,128	1,577	1,516	1,579
MALE	3,762	333	583	611	834	743	658
FEMALE	3,813	297	562	517	743	773	921
BLUE EARTH	52,596	3,902	6,680	14,219	13,267	7,921	6,607
MALE	25,366	2,035	3,389	6,739	6,848	3,831	2,524
FEMALE	27,230	1,867	3,291	7,480	6,419	4,090	4,083
BROWN	28,045	2,196	3,800	5,224	6,662	5,308	4,855
MALE	13,432	1,118	2,055	2,476	3,218	2,600	1,965
FEMALE	14,613	1,078	1,745	2,748	3,444	2,708	2,890
CARLTON	28,432	2,228	4,491	4,614	7,388	5,248	4,463
MALE	14,349	1,170	2,375	2,447	3,786	2,643	1,928
FEMALE	14,083	1,058	2,116	2,167	3,602	2,605	2,535

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
CARVER	43,082	3,995	6,850	8,199	13,805	6,892	3,341
MALE	22,074	2,093	3,686	4,382	7,057	3,508	1,348
FEMALE	21,008	1,902	3,164	3,817	6,748	3,384	1,993
CASS	21,184	1,618	3,214	2,728	4,861	4,698	4,065
MALE	10,695	805	1,556	1,515	2,536	2,356	1,927
FEMALE	10,489	813	1,658	1,213	2,325	2,342	2,138
CHIPPEWA	14,400	1,204	2,018	2,106	3,559	2,910	2,603
MALE	7,237	610	1,090	1,113	1,919	1,418	1,087
FEMALE	7,163	594	928	993	1,640	1,492	1,516
CHISAGO	28,957	2,838	5,077	4,685	8,086	4,646	3,625
MALE	14,693	1,511	2,651	2,459	4,180	2,287	1,605
FEMALE	14,264	1,327	2,426	2,226	3,906	2,359	2,020
CLAY	49,444	3,775	6,630	13,129	12,533	7,800	5,577
MALE	24,206	1,871	3,243	6,322	6,614	3,879	2,277
FEMALE	25,238	1,904	3,387	6,807	5,919	3,921	3,300
CLEARWATER	9,054	776	1,625	1,304	2,161	1,555	1,633
MALE	4,632	416	828	730	1,131	760	767
FEMALE	4,422	360	797	574	1,030	795	866
COOK	4,274	284	626	555	1,305	846	658
MALE	2,079	143	331	273	633	420	279
FEMALE	2,195	141	295	282	672	426	379
COTTONWOOD	13,464	1,066	1,908	1,866	3,089	2,685	2,850
MALE	6,610	587	872	977	1,634	1,364	1,176
FEMALE	6,854	479	1,036	889	1,455	1,321	1,674
CROW WING	43,582	3,469	6,548	6,357	10,629	8,630	7,949
MALE	21,085	1,827	3,251	3,304	5,080	4,166	3,457
FEMALE	22,497	1,642	3,297	3,053	5,549	4,464	4,492

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
DAKOTA	239,499	21,944	40,992	39,969	87,095	36,686	12,813
MALE	119,151	11,031	20,955	20,236	43,102	18,596	5,231
FEMALE	120,348	10,913	20,037	19,733	43,993	18,090	7,582
DODGE	15,167	1,578	2,692	2,378	4,241	2,264	2,014
MALE	7,653	785	1,355	1,261	2,225	1,153	874
FEMALE	7,514	793	1,337	1,117	2,016	1,111	1,140
DOUGLAS	29,945	2,498	4,339	4,871	7,481	5,635	5,121
MALE	14,603	1,245	2,175	2,439	3,757	2,779	2,208
FEMALE	15,342	1,253	2,164	2,432	3,724	2,856	2,913
FARIBAULT	18,140	1,470	2,703	2,386	3,959	3,845	3,777
MALE	8,729	754	1,440	1,261	1,946	1,819	1,509
FEMALE	9,411	716	1,263	1,125	2,013	2,026	2,268
FILLMORE	21,252	1,677	3,210	3,122	4,882	4,010	4,351
MALE	10,636	953	1,732	1,578	2,490	1,965	1,918
FEMALE	10,616	724	1,478	1,544	2,392	2,045	2,433
FREEBORN	34,594	2,664	5,098	5,477	8,649	6,938	5,768
MALE	16,906	1,338	2,515	2,856	4,430	3,413	2,354
FEMALE	17,688	1,326	2,583	2,621	4,219	3,525	3,414
GOODHUE	40,289	3,547	6,268	5,925	11,024	7,469	6,056
MALE	20,088	1,837	3,305	3,144	5,596	3,716	2,490
FEMALE	20,201	1,710	2,963	2,781	5,428	3,753	3,566
GRANT	7,004	522	1,038	936	1,532	1,374	1,602
MALE	3,472	298	550	497	735	696	696
FEMALE	3,532	224	488	439	797	678	906
HENNEPIN	974,684	68,318	111,544	186,860	320,448	172,344	115,170
MALE	468,996	34,392	56,845	93,122	158,613	83,150	42,874
FEMALE	505,688	33,926	54,699	93,738	161,835	89,194	72,296

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
HOUSTON	18,978	1,580	2,912	2,948	4,987	3,585	2,966
MALE	9,648	873	1,476	1,593	2,645	1,797	1,264
FEMALE	9,330	707	1,436	1,355	2,342	1,788	1,702
HUBBARD	15,563	1,200	2,616	2,215	4,040	2,842	2,650
MALE	7,515	511	1,296	1,084	1,965	1,435	1,224
FEMALE	8,048	689	1,320	1,131	2,075	1,407	1,426
ISANTI	26,513	2,380	4,983	4,090	8,459	4,074	2,527
MALE	12,897	1,216	2,472	2,058	4,028	2,058	1,065
FEMALE	13,616	1,164	2,511	2,032	4,431	2,016	1,462
ITASCA	43,442	3,507	7,290	6,610	11,917	7,771	6,347
MALE	22,251	1,911	4,098	3,409	6,129	3,878	2,826
FEMALE	21,191	1,596	3,192	3,201	5,788	3,893	3,521
JACKSON	12,944	1,169	1,889	2,019	3,299	2,483	2,085
MALE	6,504	647	940	1,067	1,793	1,193	864
FEMALE	6,440	522	949	952	1,506	1,290	1,221
KANABEC	12,801	1,190	2,247	1,916	3,365	2,351	1,732
MALE	6,390	628	1,152	1,015	1,676	1,156	763
FEMALE	6,411	562	1,095	901	1,689	1,195	969
KANDIYOHI	40,190	3,332	5,824	7,632	10,840	6,955	5,607
MALE	19,746	1,689	2,967	3,676	5,506	3,516	2,392
FEMALE	20,444	1,643	2,857	3,956	5,334	3,439	3,215
KITTSON	6,523	527	859	867	1,657	1,369	1,244
MALE	3,239	280	435	422	855	687	560
FEMALE	3,284	247	424	445	802	682	684
KOOCHICHING	15,776	1,238	2,588	2,542	3,967	2,998	2,443
MALE	7,868	631	1,367	1,300	1,993	1,494	1,083
FEMALE	7,908	607	1,221	1,242	1,974	1,504	1,360

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
LAC QUI PARLE	9,859	799	1,435	1,380	2,247	2,031	1,967
MALE	4,940	417	696	752	1,200	1,018	857
FEMALE	4,919	382	739	628	1,047	1,013	1,110
LAKE	11,240	802	1,619	1,695	3,062	2,378	1,684
MALE	5,976	458	836	969	1,687	1,283	743
FEMALE	5,264	344	783	726	1,375	1,095	941
LAKE OF THE WOODS	3,881	280	547	553	987	816	698
MALE	1,971	165	302	289	513	375	327
FEMALE	1,910	115	245	264	474	441	371
LESUEUR	23,489	2,072	3,725	3,322	6,356	4,280	3,734
MALE	11,890	996	1,948	1,805	3,402	2,141	1,598
FEMALE	11,599	1,076	1,777	1,517	2,954	2,139	2,136
LINCOLN	7,681	585	1,201	1,034	1,591	1,583	1,687
MALE	3,837	271	634	564	823	803	742
FEMALE	3,844	314	567	470	768	780	945
LYON	25,555	2,268	3,887	4,967	6,423	4,151	3,859
MALE	12,651	1,232	2,036	2,420	3,292	2,036	1,635
FEMALE	12,904	1,036	1,851	2,547	3,131	2,115	2,224
MCLEOD	30,661	2,814	4,841	4,697	8,437	5,360	4,512
MALE	15,110	1,488	2,585	2,337	4,203	2,641	1,856
FEMALE	15,551	1,326	2,256	2,360	4,234	2,719	2,656
MAHNOMEN	5,548	447	1,081	838	1,228	1,020	934
MALE	2,873	221	568	470	646	528	440
FEMALE	2,675	226	513	368	582	492	494
MARSHALL	12,496	1,036	2,164	1,711	3,068	2,394	2,123
MALE	6,455	606	1,145	895	1,596	1,232	981
FEMALE	6,041	430	1,019	816	1,472	1,162	1,142

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
MARTIN	23,795	1,926	3,466	3,571	6,008	4,419	4,405
MALE	12,091	1,038	1,954	1,926	3,221	2,161	1,791
FEMALE	11,704	888	1,512	1,645	2,787	2,258	2,614
MEEKER	21,041	1,907	3,424	3,058	5,272	4,006	3,374
MALE	10,686	1,001	1,840	1,631	2,755	2,009	1,450
FEMALE	10,355	906	1,584	1,427	2,517	1,997	1,924
MILLE LACS	18,770	1,746	2,910	2,739	4,613	3,290	3,472
MALE	9,503	984	1,551	1,498	2,347	1,583	1,540
FEMALE	9,267	762	1,359	1,241	2,266	1,707	1,932
MORRISON	30,171	2,905	5,242	4,903	7,042	5,469	4,610
MALE	15,018	1,495	2,708	2,531	3,529	2,753	2,002
FEMALE	15,153	1,410	2,534	2,372	3,513	2,716	2,608
MOWER	38,890	2,948	5,489	5,534	8,780	8,760	7,379
MALE	18,764	1,534	2,727	2,774	4,496	4,204	3,029
FEMALE	20,126	1,414	2,762	2,760	4,284	4,556	4,350
MURRAY	10,704	844	1,819	1,482	2,459	2,179	1,921
MALE	5,374	419	973	789	1,301	1,055	837
FEMALE	5,330	425	846	693	1,158	1,124	1,084
NICOLLET	28,494	2,295	4,129	6,582	8,273	4,341	2,874
MALE	14,585	1,157	2,163	3,364	4,529	2,202	1,170
FEMALE	13,909	1,138	1,966	3,218	3,744	2,139	1,704
NOBLES	21,334	1,621	3,063	3,298	5,268	4,314	3,770
MALE	10,248	795	1,492	1,745	2,525	2,143	1,548
FEMALE	11,086	826	1,571	1,553	2,743	2,171	2,222
NORMAN	8,952	738	1,474	1,131	1,979	1,858	1,772
MALE	4,369	325	791	583	969	905	796
FEMALE	4,583	413	683	548	1,010	953	976

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**. AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
OLMSTED	100,459	8,438	13,701	19,277	32,776	16,540	9,727
MALE	47,854	4,324	7,176	8,260	16,257	8,272	3,565
FEMALE	52,605	4,114	6,525	11,017	16,519	8,268	6,162
OTTER TAIL	55,127	4,436	8,428	7,795	13,660	11,334	9,474
MALE	27,099	2,351	4,145	4,069	6,808	5,601	4,125
FEMALE	28,028	2,085	4,283	3,726	6,852	5,733	5,349
PENNINGTON	13,556	1,085	1,987	2,388	3,579	2,223	2,294
MALE	6,697	590	1,010	1,219	1,828	1,080	970
FEMALE	6,859	495	977	1,169	1,751	1,143	1,324
PINE	21,074	1,689	3,398	2,970	5,615	4,005	3,397
MALE	10,916	872	1,761	1,611	3,050	2,120	1,502
FEMALE	10,158	817	1,637	1,359	2,565	1,885	1,895
PIPESTONE	11,051	898	1,651	1,590	2,480	2,222	2,210
MALE	5,331	427	835	849	1,237	1,087	896
FEMALE	5,720	471	816	741	1,243	1,135	1,314
POLK	33,696	2,542	5,359	5,582	8,242	6,177	5,794
MALE	16,820	1,364	2,900	2,918	4,201	3,014	2,423
FEMALE	16,876	1,178	2,459	2,664	4,041	3,163	3,371
POPE	11,643	1,016	1,778	1,436	2,625	2,523	2,265
MALE	5,770	527	877	738	1,382	1,247	999
FEMALE	5,873	489	901	698	1,243	1,276	1,266
RAMSEY	469,851	38,089	56,836	91,104	141,296	83,312	59,214
MALE	224,465	19,691	28,473	44,648	70,876	38,992	21,785
FEMALE	245,386	18,398	28,363	46,456	70,420	44,320	37,429
RED LAKE	4,961	399	929	760	1,144	810	919
MALE	2,455	191	451	395	600	396	422
FEMALE	2,506	208	478	365	544	414	497

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
REDWOOD	18,146	1,420	2,909	2,534	4,454	3,269	3,560
MALE	9,169	720	1,551	1,399	2,323	1,660	1,516
FEMALE	8,977	700	1,358	1,135	2,131	1,609	2,044
RENVILLE	18,945	1,560	2,937	2,616	4,398	3,879	3,555
MALE	9,418	784	1,588	1,386	2,229	1,912	1,519
FEMALE	9,527	776	1,349	1,230	2,169	1,967	2,036
RICE	47,912	3,952	6,907	10,919	13,160	7,333	5,641
MALE	23,374	1,906	3,432	5,432	6,633	3,677	2,294
FEMALE	24,538	2,046	3,475	5,487	6,527	3,656	3,347
ROCK	10,308	926	1,572	1,473	2,518	2,018	1,801
MALE	4,931	478	775	715	1,222	988	753
FEMALE	5,377	448	797	758	1,296	1,030	1,048
ROSEAU	14,009	1,241	2,243	2,109	3,801	2,527	2,088
MALE	7,303	634	1,242	1,157	1,984	1,319	967
FEMALE	6,706	607	1,001	952	1,817	1,208	1,121
ST LOUIS	200,646	14,213	27,582	33,975	55,912	36,001	32,963
MALE	98,879	7,306	14,525	17,139	29,025	17,758	13,126
FEMALE	101,767	6,907	13,057	16,836	26,887	18,243	19,837
SCOTT	53,609	5,205	10,114	9,206	17,874	7,718	3,492
MALE	27,239	2,675	5,321	4,808	9,018	3,945	1,472
FEMALE	26,370	2,530	4,793	4,398	8,856	3,773	2,020
SHERBURNE	36,599	3,398	7,186	6,012	12,267	5,113	2,623
MALE	18,390	1,687	3,605	3,212	6,194	2,574	1,118
FEMALE	18,209	1,711	3,581	2,800	6,073	2,539	1,505
SIBLEY	15,356	1,318	2,549	2,253	3,696	2,983	2,557
MALE	7,725	677	1,342	1,174	1,962	1,457	1,113
FEMALE	7,631	641	1,207	1,079	1,734	1,526	1,444

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
STEARNS	117,087	10,462	17,894	28,050	29,721	18,488	12,472
MALE	58,912	5,546	9,456	13,739	15,624	9,413	5,134
FEMALE	58,175	4,916	8,438	14,311	14,097	9,075	7,338
STEELE	30,874	2,841	4,529	5,034	8,755	5,515	4,200
MALE	15,173	1,422	2,236	2,484	4,556	2,691	1,784
FEMALE	15,701	1,419	2,293	2,550	4,199	2,824	2,416
STEVENS	10,947	855	1,472	2,486	2,445	1,919	1,770
MALE	5,536	438	766	1,326	1,360	905	741
FEMALE	5,411	417	706	1,160	1,085	1,014	1,029
SWIFT	12,228	974	1,920	1,921	2,636	2,309	2,468
MALE	6,276	549	1,060	1,047	1,419	1,124	1,077
FEMALE	5,952	425	860	874	1,217	1,185	1,391
TODD	25,276	2,453	4,214	3,989	5,880	4,783	3,957
MALE	12,842	1,294	2,226	2,147	3,013	2,444	1,718
FEMALE	12,434	1,159	1,988	1,842	2,867	2,339	2,239
TRAVERSE	4,955	368	702	729	975	1,104	1,077
MALE	2,460	199	370	387	488	555	461
FEMALE	2,495	169	332	342	487	549	616
WABASHA	19,299	1,649	2,904	3,023	4,779	3,460	3,484
MALE	9,778	833	1,477	1,577	2,543	1,830	1,518
FEMALE	9,521	816	1,427	1,446	2,236	1,630	1,966
WADENA	13,698	974	2,469	1,919	3,206	2,568	2,562
MALE	6,477	443	1,138	1,000	1,564	1,219	1,113
FEMALE	7,221	531	1,331	919	1,642	1,349	1,449
WASECA	18,817	1,837	2,670	3,005	5,265	3,329	2,711
MALE	9,457	932	1,449	1,559	2,698	1,678	1,141
FEMALE	9,360	905	1,221	1,446	2,567	1,651	1,570

Table 65

POPULATION ESTIMATES* BY REGION, COUNTY, CITIES OVER 90,000**, AND SEX
MINNESOTA, 1987

	TOTAL	UNDER 5	5-14 YRS.	15-24 YRS.	25-44 YRS.	45-64 YRS.	65 & OVER
WASHINGTON	130,688	11,527	24,269	21,395	46,061	20,318	7,118
MALE	65,209	5,965	11,986	11,130	22,728	10,469	2,931
FEMALE	65,479	5,562	12,283	10,265	23,333	9,849	4,187
WATONWAN	11,473	963	1,546	1,574	2,855	2,323	2,212
MALE	5,671	508	821	821	1,506	1,117	898
FEMALE	5,802	455	725	753	1,349	1,206	1,314
WILKIN	8,068	697	1,272	1,188	2,004	1,580	1,327
MALE	4,010	332	628	676	1,038	786	550
FEMALE	4,058	365	644	512	966	794	777
WINONA	47,132	3,622	6,707	10,634	12,204	7,603	6,362
MALE	22,634	1,925	3,516	4,764	6,179	3,674	2,576
FEMALE	24,498	1,697	3,191	5,870	6,025	3,929	3,786
WRIGHT	65,839	6,840	11,778	10,559	20,539	9,574	6,549
MALE	33,117	3,379	6,174	5,221	10,554	4,963	2,826
FEMALE	32,722	3,461	5,604	5,338	9,985	4,611	3,723
YELLOW MEDICINE	12,478	1,032	1,605	1,890	2,834	2,411	2,706
MALE	6,366	571	878	1,034	1,517	1,196	1,170
FEMALE	6,112	461	727	856	1,317	1,215	1,536
MINNEAPOLIS	356,677	23,504	30,875	74,189	114,177	54,988	58,944
MALE	168,534	11,818	15,662	36,628	58,317	25,477	20,632
FEMALE	188,143	11,686	15,213	37,561	55,860	29,511	38,312
ST PAUL	264,782	21,315	28,671	51,100	75,210	45,512	42,974
MALE	123,940	10,939	14,450	24,630	38,069	20,515	15,337
FEMALE	140,842	10,376	14,221	26,470	37,141	24,997	27,637
DULUTH	83,065	5,268	10,063	15,790	22,208	14,152	15,584
MALE	39,302	2,668	5,309	7,652	11,325	6,720	5,628
FEMALE	43,763	2,600	4,754	8,138	10,883	7,432	9,956

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*Prepared by MCHS using State Demographer's county totals as input.

**As of 1980 Census.

Appendices

APPENDIX A

DEFINITIONS

DEFINITIONS

ABORTION, INDUCED:

The intentional, premature removal from the uterus of a non-viable fetus.

ABORTION PROCEDURES:

Dilation and curettage (sharp curettage): Mechanical dilation of the cervix with removal of the uterine contents by scraping the uterine wall with a surgical curette.

(Dilation and Evacuation, D & E) (Laminaria and curettage): Dilation of the cervix by insertion of laminaria several hours before removal of uterine contents by suction and sharp curettage.

Hysterectomy/hysterotomy: Removal of the fetus by means of a surgical incision made in the uterine wall. In the case of hysterectomy, the entire uterus is removed.

Menstrual extraction (m. regulation, m. induction): Evacuation of the uterine contents by suction curettage, usually before the diagnosis of pregnancy is reliable. Urine pregnancy test may be negative (-) or positive (+).

Prostaglandin: Induction of labor by injection of a prostaglandin (naturally occurring hormone) solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation. Other hormones may be given intravenously to assist labor.

Saline/fluid exchange: Induction of labor by injection of a sterile salt solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation.

Vacuum curettage: Mechanical dilation of the cervix with removal of the uterine contents by low pressure suction created by an electric suction pump.

ABORTION, RESIDENT:

Abortions to Minnesota residents which occurred in Minnesota and were reported during this Surveillance period.

CAUSE OF DEATH:

The Ninth Revision of the International Classification of Diseases (ICD) was used.

COMPLICATIONS OF INDUCED ABORTION:

Any unfavorable condition related to the abortion as reported by the provider facility including: hemorrhage (more than 500 ml), pelvic infection, fever, cervical injury, uterine perforation, or retained tissue.

CURETTE:

A spoon-shaped surgical instrument.

CURETTAGE:

The removal of material from the uterine wall with a curette. Also, the induction of endometrial bleeding by administration and withdrawal of any progestational agent.

FETAL DEATH:

Fetal death is death prior to the complete expulsion or extraction of a product of conception from its mother, irrespective of the duration of pregnancy. In this summary only the fetal deaths of 20 weeks or more are reported.

FETAL DEATH ORDER:

The number of fetal deaths including the current fetal death.

GESTATION:

The period of development of the fetus, expressed in completed weeks, calculated from the first day of the last menstrual period (LMP).

HIGH RISK BIRTH:

A birth is classified as high risk if any of the following conditions exist:

Mother's age: Less than 17 years or over 39 years.
Prenatal care: Less than 3 visits.
Condition not related to pregnancy: Tuberculosis, rubella, diabetes, cardiac condition, or urinary tract infection.
Condition related to pregnancy: Hydramnios or toxemia.
Condition of labor: Prolonged labor.
Birth weight: 2,499 grams or less (5 lb. 8 oz.)
Birth injury: To brain, spinal cord, fractures, other bone injury, paralysis, or nerve injuries.
Birth condition: Hemolytic diseases of newborn, hyaline membrane D, respiratory distress syndrome, or atelectasis.
Congenital anomaly

INFANT DEATH

A death under one year of age.

LAMINARIA:

Sterile, dried marine plant stems which are capable of expanding with fluid absorption.

LIVE BIRTH:

Live birth means the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached, each product of such a birth is considered a live born.

LIVE BIRTH ORDER:

The number of live births including the current birth.

MATERNAL DEATH:

Maternal death is a death attributable to delivery or a complication of pregnancy, childbirth, or the puerperium, as defined by the International Classification of Diseases.

NEONATAL DEATH:

A death to an infant under 28 days of age.

RATE:

Rates are given per 1,000 except for certain causes of death when they are stated as per 100,000. See Technical Notes, page 8 for explanations of specific rates included in this report.

REGION:

Region refers to the eight Minnesota Department of Health Districts. Region names and counties within regions follow:

Northwestern:	Beltrami, Clearwater, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake and Roseau
Northeastern:	Aitkin, Carlton, Cook, Itasca, Koochiching, Lake, and St. Louis

West Central: Becker, Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin

Central: Benton, Cass, Chisago, Crow Wing, Isanti, Kanabec, Mille Lacs, Morrison, Pine, Sherburne, Stearns, Todd, Wadena, and Wright

Southwestern: Big Stone, Chippewa, Cottonwood, Jackson, Kandiyohi, Lac Qui Parle, Lincoln, Lyon, McLeod, Meeker, Murray, Nobles, Pipestone, Redwood, Renville, Rock, Swift, and Yellow Medicine

South Central: Blue Earth, Brown, Faribault, Le Sueur, Martin, Nicollet, Sibley, Waseca, and Watonwan

Southeastern: Dodge, Fillmore, Freeborn, Goodhue, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona

Metropolitan: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington.

RESIDENCE:

This is the geographic area of the usual place of abode of the deceased at the time of death, of the mother in the case of live births or fetal deaths, and of the induced abortion recipient. This means, in general, the place where one lives and sleeps most of the time. However, when usual residence is in a nursing home or other institution, where the patient resided for the purpose of receiving care, residence is coded to the place where the patient lived prior to admission to the institution.

RESIDENT PERCENTAGE, REPORTED INDUCED ABORTIONS:

The number of Minnesota residents receiving induced abortions per 100 total reported induced abortions occurring in Minnesota. Most tables relating to abortions include resident percentages pertinent to selected variables contained within the individual tables.

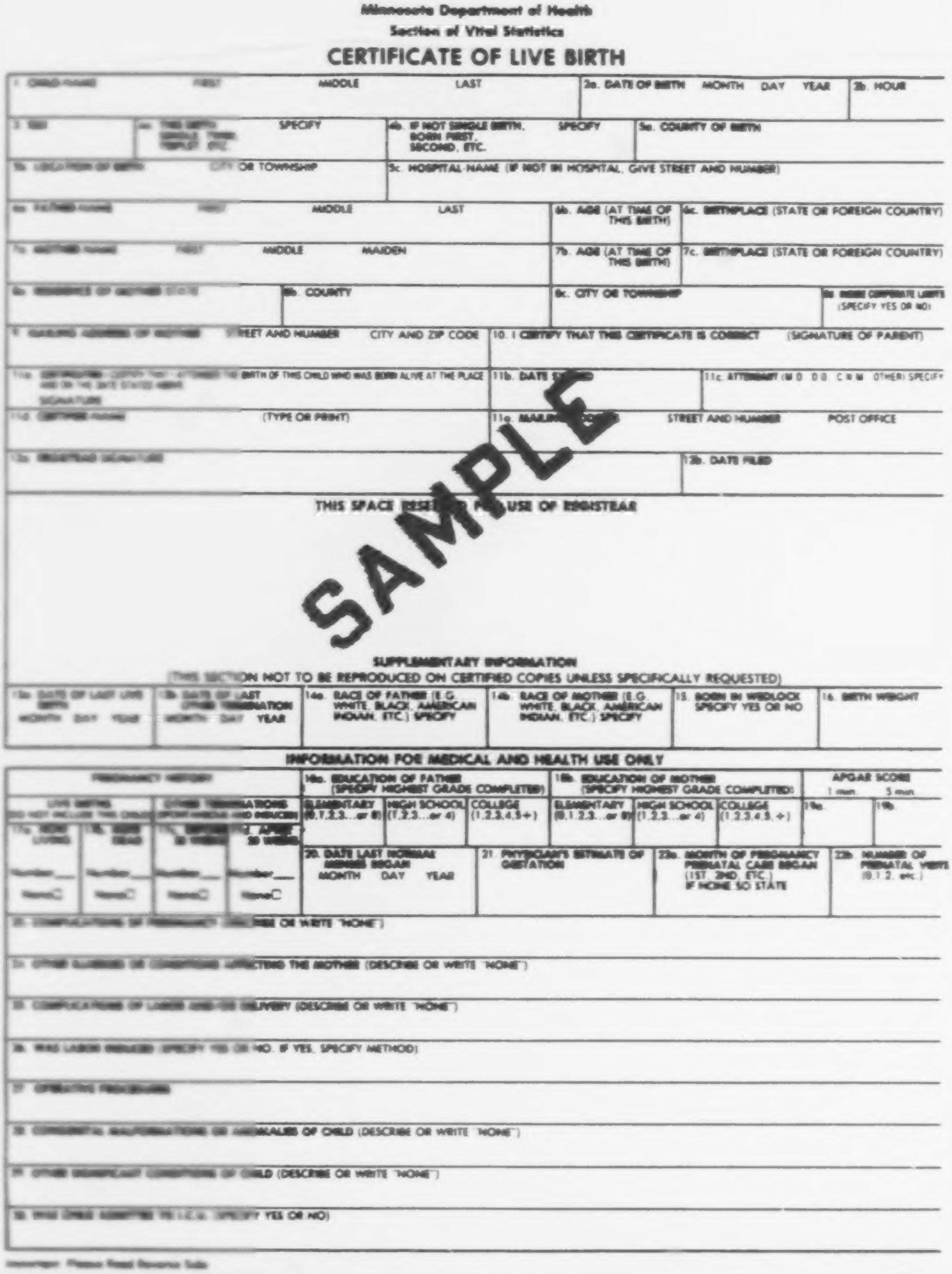
TRIMESTER:

One third of the total gestational period necessary for a full-term pregnancy. Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.

APPENDIX B

DATA COLLECTION INSTRUMENTS

FIGURE 8



Minnesota Department of Health
Section of Vital Statistics

CERTIFICATE OF LIVE BIRTH

1. CHILD-NAME FIRST MIDDLE LAST
2a. DATE OF BIRTH MONTH DAY YEAR
2b. HOUR
3. SEX
4a. THIS BIRTH SINGLE, TWIN, TRIPLET, ETC. SPECIFY
4b. IF NOT SINGLE BIRTH, BORN FIRST, SECOND, ETC. SPECIFY
5a. COUNTY OF BIRTH
5b. LOCATION OF BIRTH CITY OR TOWNSHIP
5c. HOSPITAL NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)
6a. FATHER-NAME FIRST MIDDLE LAST
6b. AGE (AT TIME OF THIS BIRTH)
6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a. MOTHER-NAME FIRST MIDDLE MAIDEN
7b. AGE (AT TIME OF THIS BIRTH)
7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a. RESIDENCE OF MOTHER-STATE
8b. COUNTY
8c. CITY OR TOWNSHIP
8d. INSIDE CORPORATE LIMITS (SPECIFY YES OR NO)
9. MAILING ADDRESS OF MOTHER STREET AND NUMBER CITY AND ZIP CODE
10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)
11a. CERTIFICATION I CERTIFY THAT I ATTENDED THE BIRTH OF THIS CHILD WHO WAS BORN ALIVE AT THE PLACE AND ON THE DATE STATED ABOVE SIGNATURE
11b. DATE SIGNED
11c. ATTENDANT (M.D. D.O. C.N.M. OTHER) SPECIFY
11d. CERTIFIER-NAME (TYPE OR PRINT)
11e. MAILING ADDRESS STREET AND NUMBER POST OFFICE
12a. REGISTRAR SIGNATURE
12b. DATE FILED

THIS SPACE RESERVED FOR USE OF REGISTRAR

SAMPLE

SUPPLEMENTARY INFORMATION
(THIS SECTION NOT TO BE REPRODUCED ON CERTIFIED COPIES UNLESS SPECIFICALLY REQUESTED)

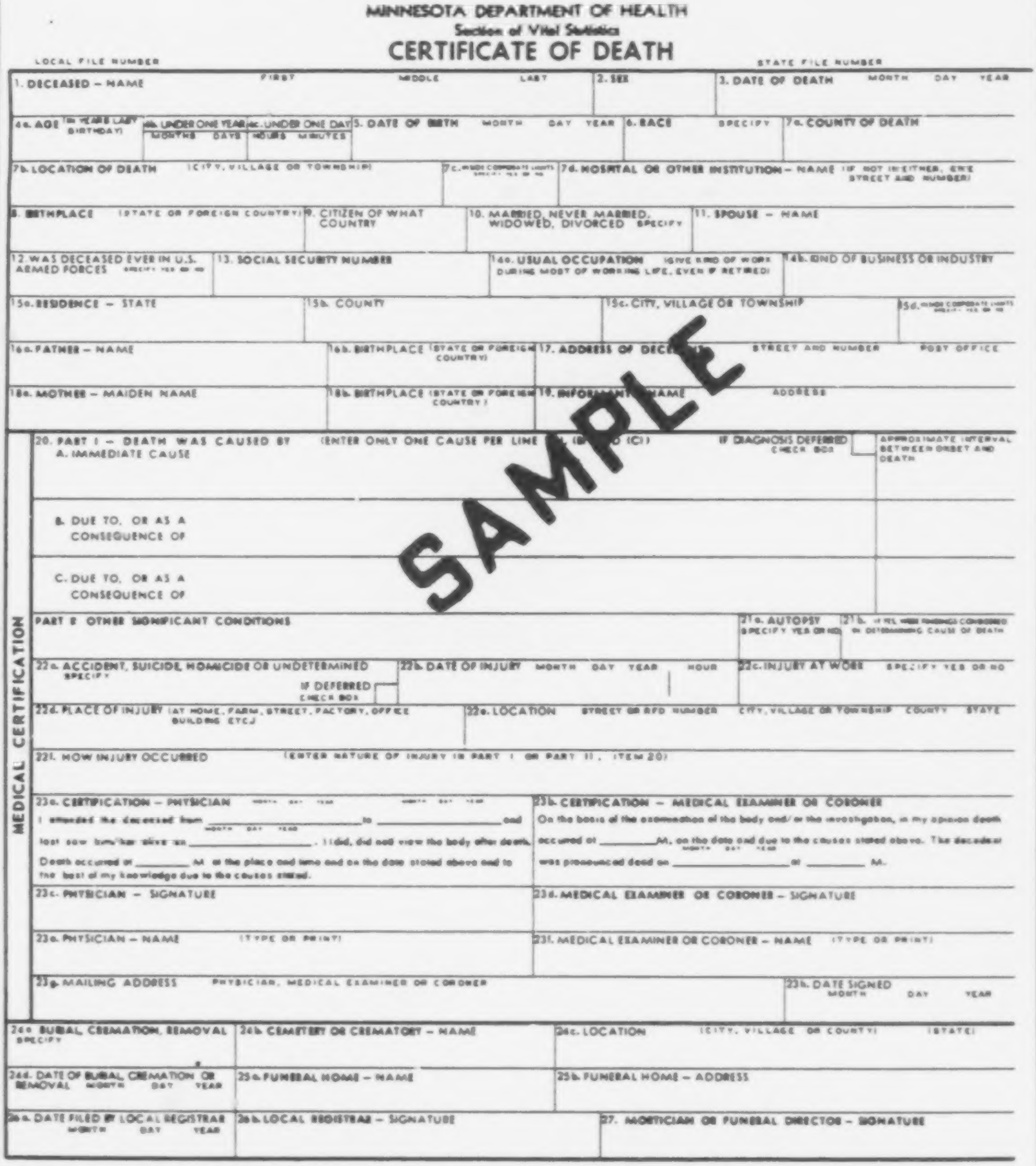
13a. DATE OF LAST LIVE BIRTH MONTH DAY YEAR
13b. DATE OF LAST OTHER TERMINATION MONTH DAY YEAR
14a. RACE OF FATHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY
14b. RACE OF MOTHER (E.G. WHITE, BLACK, AMERICAN INDIAN, ETC.) SPECIFY
15. BORN IN WEDLOCK SPECIFY YES OR NO
16. BIRTH WEIGHT

INFORMATION FOR MEDICAL AND HEALTH USE ONLY

PREGNANCY HISTORY
LIVE BIRTHS (DO NOT INCLUDE THIS CHILD)
17a. NOW LIVING Number___ None☐
17b. NOW DEAD Number___ None☐
OTHER TERMINATIONS (SPONTANEOUS AND INDUCED)
17c. BEFORE 20 WEEKS Number___ None☐
17d. AFTER 20 WEEKS Number___ None☐
18a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED) ELEMENTARY (0,1,2,3…or 8) HIGH SCHOOL (1,2,3…or 4) COLLEGE (1,2,3,4,5+)
18b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED) ELEMENTARY (0,1,2,3…or 8) HIGH SCHOOL (1,2,3…or 4) COLLEGE (1,2,3,4,5,+)
APGAR SCORE 19a. 1 min. 19b. 5 min.
20. DATE LAST NORMAL MENSES BEGAN MONTH DAY YEAR
21. PHYSICIAN'S ESTIMATE OF GESTATION
22a. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1ST, 2ND, ETC.) IF NONE SO STATE
22b. NUMBER OF PRENATAL VISITS (0,1,2, etc.)
23. COMPLICATIONS OF PREGNANCY (DESCRIBE OR WRITE "NONE")
24. OTHER ILLNESSES OR CONDITIONS AFFECTING THE MOTHER (DESCRIBE OR WRITE "NONE")
25. COMPLICATIONS OF LABOR AND/OR DELIVERY (DESCRIBE OR WRITE "NONE")
26. WAS LABOR INDUCED (SPECIFY YES OR NO. IF YES, SPECIFY METHOD)
27. OPERATIVE PROCEDURES
28. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (DESCRIBE OR WRITE "NONE")
29. OTHER SIGNIFICANT CONDITIONS OF CHILD (DESCRIBE OR WRITE "NONE")
30. WAS CHILD ADMITTED TO I.C.U. (SPECIFY YES OR NO)

Important: Please Read Reverse Side

FIGURE 9



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics
CERTIFICATE OF DEATH

LOCAL FILE NUMBER
STATE FILE NUMBER

1. DECEASED – NAME FIRST MIDDLE LAST
2. SEX
3. DATE OF DEATH MONTH DAY YEAR
4a. AGE (IN YEARS LAST BIRTHDAY)
4b. UNDER ONE YEAR MONTHS DAYS
4c. UNDER ONE DAY HOURS MINUTES
5. DATE OF BIRTH MONTH DAY YEAR
6. RACE SPECIFY
7a. COUNTY OF DEATH
7b. LOCATION OF DEATH (CITY, VILLAGE OR TOWNSHIP)
7c. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
7d. HOSPITAL OR OTHER INSTITUTION – NAME (IF NOT IN EITHER, GIVE STREET AND NUMBER)
8. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
9. CITIZEN OF WHAT COUNTRY
10. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED SPECIFY
11. SPOUSE – NAME
12. WAS DECEASED EVER IN U.S. ARMED FORCES SPECIFY YES OR NO
13. SOCIAL SECURITY NUMBER
14a. USUAL OCCUPATION (GIVE KIND OF WORK DURING MOST OF WORKING LIFE, EVEN IF RETIRED)
14b. KIND OF BUSINESS OR INDUSTRY
15a. RESIDENCE – STATE
15b. COUNTY
15c. CITY, VILLAGE OR TOWNSHIP
15d. INSIDE CORPORATE LIMITS SPECIFY YES OR NO
16a. FATHER – NAME
16b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
17. ADDRESS OF DECEDENT STREET AND NUMBER POST OFFICE
18a. MOTHER – MAIDEN NAME
18b. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
19. INFORMANT – NAME ADDRESS

MEDICAL CERTIFICATION

20. PART I – DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE (A), (B) AND (C))
A. IMMEDIATE CAUSE
IF DIAGNOSIS DEFERRED CHECK BOX ☐
APPROXIMATE INTERVAL BETWEEN ONSET AND DEATH
B. DUE TO, OR AS A CONSEQUENCE OF
C. DUE TO, OR AS A CONSEQUENCE OF
PART II OTHER SIGNIFICANT CONDITIONS
21a. AUTOPSY SPECIFY YES OR NO
21b. IF YES, WERE FINDINGS CONSIDERED IN DETERMINING CAUSE OF DEATH
22a. ACCIDENT, SUICIDE, HOMICIDE OR UNDETERMINED SPECIFY
IF DEFERRED CHECK BOX ☐
22b. DATE OF INJURY MONTH DAY YEAR HOUR
22c. INJURY AT WORK SPECIFY YES OR NO
22d. PLACE OF INJURY (AT HOME, FARM, STREET, FACTORY, OFFICE BUILDING ETC.)
22e. LOCATION STREET OR RFD NUMBER CITY, VILLAGE OR TOWNSHIP COUNTY STATE
22f. HOW INJURY OCCURRED (ENTER NATURE OF INJURY IN PART I OR PART II, ITEM 20)

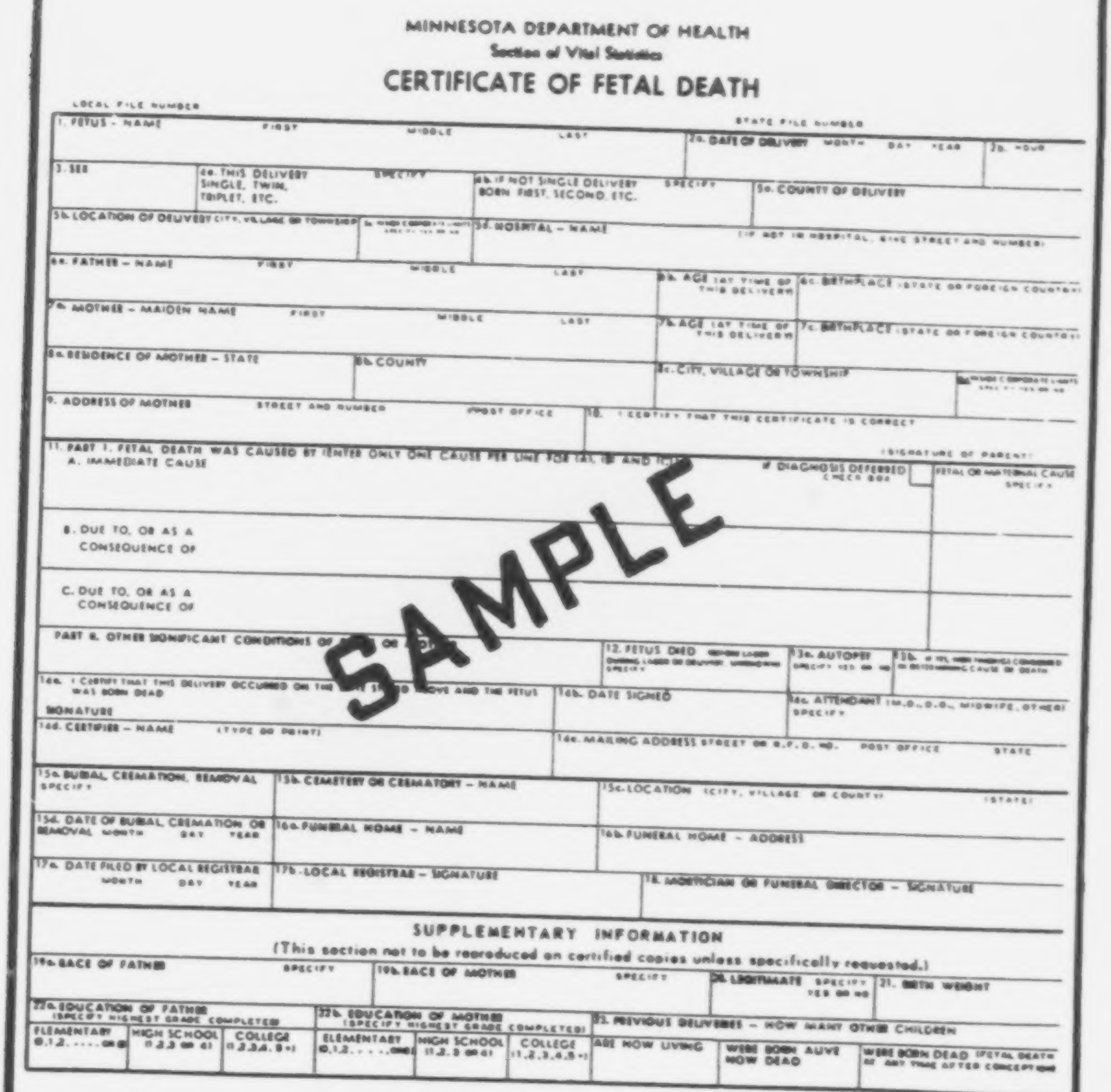
23a. CERTIFICATION – PHYSICIAN
I attended the deceased from ____________ to ____________ and last saw him/her alive on ____________. I did, did not view the body after death. Death occurred at ________ M. at the place and time and on the date stated above and to the best of my knowledge due to the causes stated.

23b. CERTIFICATION – MEDICAL EXAMINER OR CORONER
On the basis of the examination of the body and/or the investigation, in my opinion death occurred at ________ M. on the date and due to the causes stated above. The decedent was pronounced dead on ____________ at ________ M.

23c. PHYSICIAN – SIGNATURE
23d. MEDICAL EXAMINER OR CORONER – SIGNATURE
23e. PHYSICIAN – NAME (TYPE OR PRINT)
23f. MEDICAL EXAMINER OR CORONER – NAME (TYPE OR PRINT)
23g. MAILING ADDRESS PHYSICIAN, MEDICAL EXAMINER OR CORONER
23h. DATE SIGNED MONTH DAY YEAR
24a. BURIAL, CREMATION, REMOVAL SPECIFY
24b. CEMETERY OR CREMATORY – NAME
24c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)
24d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR
25a. FUNERAL HOME – NAME
25b. FUNERAL HOME – ADDRESS
26a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR
26b. LOCAL REGISTRAR – SIGNATURE
27. MORTICIAN OR FUNERAL DIRECTOR – SIGNATURE

SAMPLE

FIGURE 10



MINNESOTA DEPARTMENT OF HEALTH
Section of Vital Statistics

CERTIFICATE OF FETAL DEATH

LOCAL FILE NUMBER

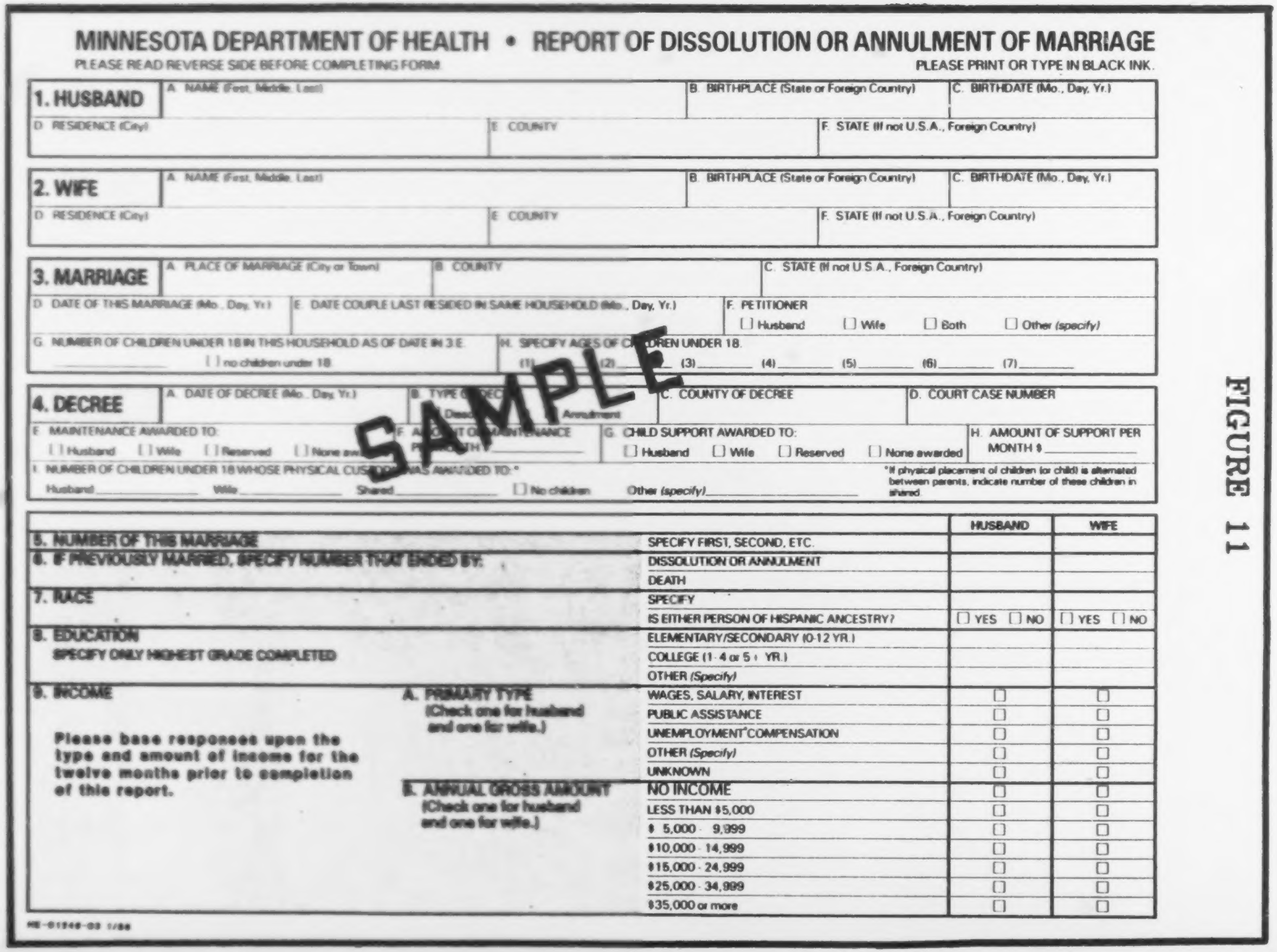
STATE FILE NUMBER

1. FETUS - NAME FIRST MIDDLE LAST
2a. DATE OF DELIVERY MONTH DAY YEAR
2b. HOUR
3. SEX
4a. THIS DELIVERY SINGLE, TWIN, TRIPLET, ETC. SPECIFY
4b. IF NOT SINGLE DELIVERY BORN FIRST, SECOND, ETC. SPECIFY
5a. COUNTY OF DELIVERY
5b. LOCATION OF DELIVERY CITY, VILLAGE OR TOWNSHIP
5d. HOSPITAL - NAME (IF NOT IN HOSPITAL, GIVE STREET AND NUMBER)
6a. FATHER - NAME FIRST MIDDLE LAST
6b. AGE (AT TIME OF THIS DELIVERY)
6c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
7a. MOTHER - MAIDEN NAME FIRST MIDDLE LAST
7b. AGE (AT TIME OF THIS DELIVERY)
7c. BIRTHPLACE (STATE OR FOREIGN COUNTRY)
8a. RESIDENCE OF MOTHER - STATE
8b. COUNTY
8c. CITY, VILLAGE OR TOWNSHIP
9. ADDRESS OF MOTHER STREET AND NUMBER POST OFFICE
10. I CERTIFY THAT THIS CERTIFICATE IS CORRECT (SIGNATURE OF PARENT)
11. PART I. FETAL DEATH WAS CAUSED BY (ENTER ONLY ONE CAUSE PER LINE FOR (A), (B) AND (C))
A. IMMEDIATE CAUSE
IF DIAGNOSIS DEFERRED CHECK BOX ☐
FETAL OR MATERNAL CAUSE SPECIFY
B. DUE TO, OR AS A CONSEQUENCE OF
C. DUE TO, OR AS A CONSEQUENCE OF
PART II. OTHER SIGNIFICANT CONDITIONS OF
12. FETUS DIED BEFORE LABOR, DURING LABOR OR DELIVERY, UNKNOWN SPECIFY
13a. AUTOPSY SPECIFY YES OR NO
13b.
14a. I CERTIFY THAT THIS DELIVERY OCCURRED ON THE DATE STATED ABOVE AND THE FETUS WAS BORN DEAD
SIGNATURE
14b. DATE SIGNED
14c. ATTENDANT (M.D., D.O., MIDWIFE, OTHER) SPECIFY
14d. CERTIFIER - NAME (TYPE OR PRINT)
14e. MAILING ADDRESS STREET OR R.F.D. NO. POST OFFICE STATE
15a. BURIAL, CREMATION, REMOVAL SPECIFY
15b. CEMETERY OR CREMATORY - NAME
15c. LOCATION (CITY, VILLAGE OR COUNTY) (STATE)
15d. DATE OF BURIAL, CREMATION OR REMOVAL MONTH DAY YEAR
16a. FUNERAL HOME - NAME
16b. FUNERAL HOME - ADDRESS
17a. DATE FILED BY LOCAL REGISTRAR MONTH DAY YEAR
17b. LOCAL REGISTRAR - SIGNATURE
18. MORTICIAN OR FUNERAL DIRECTOR - SIGNATURE

SUPPLEMENTARY INFORMATION

(This section not to be reproduced on certified copies unless specifically requested.)

19a. RACE OF FATHER SPECIFY
19b. RACE OF MOTHER SPECIFY
20. LEGITIMATE SPECIFY YES OR NO
21. BIRTH WEIGHT
22a. EDUCATION OF FATHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8) HIGH SCHOOL (1,2,3 OR 4) COLLEGE (1,2,3,4, 5+)
22b. EDUCATION OF MOTHER (SPECIFY HIGHEST GRADE COMPLETED)
ELEMENTARY (0,1,2, ... OR 8) HIGH SCHOOL (1,2,3 OR 4) COLLEGE (1,2,3,4,5+)
23. PREVIOUS DELIVERIES - HOW MANY OTHER CHILDREN
ARE NOW LIVING
WERE BORN ALIVE NOW DEAD
WERE BORN DEAD (FETAL DEATH AT ANY TIME AFTER CONCEPTION)



MINNESOTA DEPARTMENT OF HEALTH • REPORT OF DISSOLUTION OR ANNULMENT OF MARRIAGE

PLEASE READ REVERSE SIDE BEFORE COMPLETING FORM

PLEASE PRINT OR TYPE IN BLACK INK.

1. HUSBAND
A. NAME (First, Middle, Last)
B. BIRTHPLACE (State or Foreign Country)
C. BIRTHDATE (Mo., Day, Yr.)
D. RESIDENCE (City)
E. COUNTY
F. STATE (If not U.S.A., Foreign Country)

2. WIFE
A. NAME (First, Middle, Last)
B. BIRTHPLACE (State or Foreign Country)
C. BIRTHDATE (Mo., Day, Yr.)
D. RESIDENCE (City)
E. COUNTY
F. STATE (If not U.S.A., Foreign Country)

3. MARRIAGE
A. PLACE OF MARRIAGE (City or Town)
B. COUNTY
C. STATE (If not U.S.A., Foreign Country)
D. DATE OF THIS MARRIAGE (Mo., Day, Yr.)
E. DATE COUPLE LAST RESIDED IN SAME HOUSEHOLD (Mo., Day, Yr.)
F. PETITIONER ☐ Husband ☐ Wife ☐ Both ☐ Other *(specify)*
G. NUMBER OF CHILDREN UNDER 18 IN THIS HOUSEHOLD AS OF DATE IN 3 E. ______ ☐ no children under 18
H. SPECIFY AGES OF CHILDREN UNDER 18. (1)______ (2)______ (3)______ (4)______ (5)______ (6)______ (7)______

4. DECREE
A. DATE OF DECREE (Mo., Day, Yr.)
B. TYPE OF DECREE ☐ Dissolution ☐ Annulment
C. COUNTY OF DECREE
D. COURT CASE NUMBER
E. MAINTENANCE AWARDED TO: ☐ Husband ☐ Wife ☐ Reserved ☐ None awarded
F. AMOUNT OF MAINTENANCE PER MONTH $______
G. CHILD SUPPORT AWARDED TO: ☐ Husband ☐ Wife ☐ Reserved ☐ None awarded
H. AMOUNT OF SUPPORT PER MONTH $______
I. NUMBER OF CHILDREN UNDER 18 WHOSE PHYSICAL CUSTODY WAS AWARDED TO:* Husband______ Wife______ Shared______ ☐ No children Other *(specify)*______
*If physical placement of children (or child) is alternated between parents, indicate number of these children in shared.

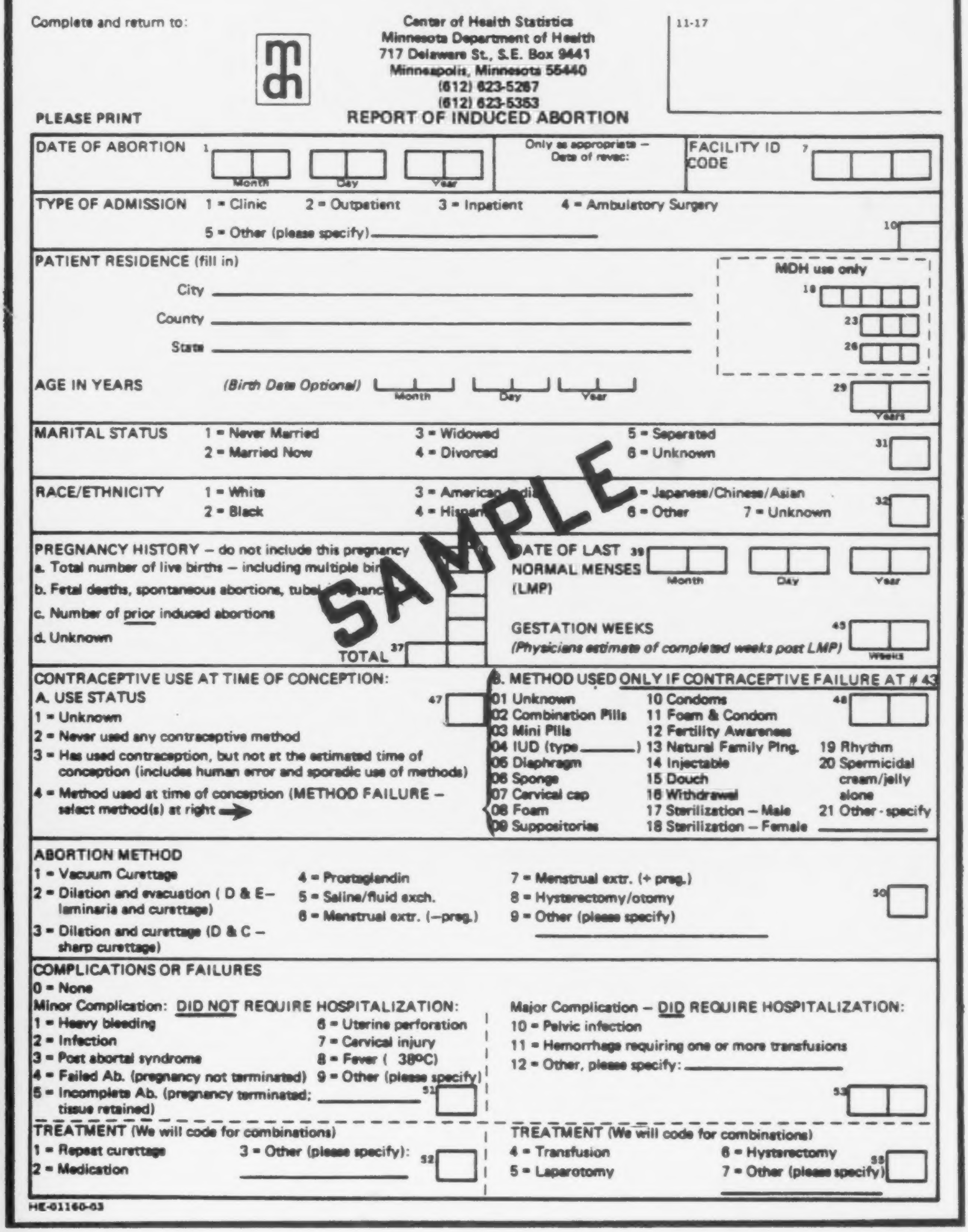
SAMPLE

		HUSBAND	WIFE
5. NUMBER OF THIS MARRIAGE	SPECIFY FIRST, SECOND, ETC.		
6. IF PREVIOUSLY MARRIED, SPECIFY NUMBER THAT ENDED BY:	DISSOLUTION OR ANNULMENT		
	DEATH		
7. RACE	SPECIFY		
	IS EITHER PERSON OF HISPANIC ANCESTRY?	☐ YES ☐ NO	☐ YES ☐ NO
8. EDUCATION **SPECIFY ONLY HIGHEST GRADE COMPLETED**	ELEMENTARY/SECONDARY (0-12 YR.)		
	COLLEGE (1-4 or 5+ YR.)		
	OTHER *(Specify)*		
9. INCOME **Please base responses upon the type and amount of income for the twelve months prior to completion of this report.** **A. PRIMARY TYPE** (Check one for husband and one for wife.)	WAGES, SALARY, INTEREST	☐	☐
	PUBLIC ASSISTANCE	☐	☐
	UNEMPLOYMENT COMPENSATION	☐	☐
	OTHER *(Specify)*	☐	☐
	UNKNOWN	☐	☐
B. ANNUAL GROSS AMOUNT (Check one for husband and one for wife.)	NO INCOME	☐	☐
	LESS THAN $5,000	☐	☐
	$ 5,000 - 9,999	☐	☐
	$10,000 - 14,999	☐	☐
	$15,000 - 24,999	☐	☐
	$25,000 - 34,999	☐	☐
	$35,000 or more	☐	☐

HE-01248-03 1/88

FIGURE 11

FIGURE 12



Complete and return to:

Center of Health Statistics
Minnesota Department of Health
717 Delaware St., S.E. Box 9441
Minneapolis, Minnesota 55440
(612) 623-5267
(612) 623-5353

11-17

PLEASE PRINT

REPORT OF INDUCED ABORTION

SAMPLE

DATE OF ABORTION 1 ☐☐ Month ☐☐ Day ☐☐ Year

Only as appropriate — Date of revac:

FACILITY ID CODE 7 ☐☐☐

TYPE OF ADMISSION 1 = Clinic 2 = Outpatient 3 = Inpatient 4 = Ambulatory Surgery
5 = Other (please specify) ________ 10 ☐

PATIENT RESIDENCE (fill in)
City ________
County ________
State ________

MDH use only
18 ☐☐☐☐☐
23 ☐☐☐
26 ☐☐☐

AGE IN YEARS (Birth Date Optional) ⌴ Month ⌴ Day ⌴ Year 29 ☐☐ Years

MARITAL STATUS
1 = Never Married
2 = Married Now
3 = Widowed
4 = Divorced
5 = Seperated
6 = Unknown
31 ☐

RACE/ETHNICITY
1 = White
2 = Black
3 = American Indian
4 = Hispanic
5 = Japanese/Chinese/Asian
6 = Other
7 = Unknown
32 ☐

PREGNANCY HISTORY — do not include this pregnancy
a. Total number of live births — including multiple births ☐
b. Fetal deaths, spontaneous abortions, tubal pregnancies ☐
c. Number of prior induced abortions ☐
d. Unknown ☐
TOTAL 37 ☐☐

DATE OF LAST NORMAL MENSES (LMP) 39 ☐☐ Month ☐☐ Day ☐☐ Year

GESTATION WEEKS (Physicians estimate of completed weeks post LMP) 43 ☐☐ Weeks

CONTRACEPTIVE USE AT TIME OF CONCEPTION:

A. USE STATUS 47 ☐
1 = Unknown
2 = Never used any contraceptive method
3 = Has used contraception, but not at the estimated time of conception (includes human error and sporadic use of methods)
4 = Method used at time of conception (METHOD FAILURE — select method(s) at right →

B. METHOD USED ONLY IF CONTRACEPTIVE FAILURE AT # 43 48 ☐☐
01 Unknown
02 Combination Pills
03 Mini Pills
04 IUD (type ____)
05 Diaphragm
06 Sponge
07 Cervical cap
08 Foam
09 Suppositories
10 Condoms
11 Foam & Condom
12 Fertility Awareness
13 Natural Family Plng.
14 Injectable
15 Douch
16 Withdrawal
17 Sterilization – Male
18 Sterilization – Female
19 Rhythm
20 Spermicidal cream/jelly alone
21 Other - specify ________

ABORTION METHOD 50 ☐
1 = Vacuum Curettage
2 = Dilation and evacuation (D & E– laminaria and curettage)
3 = Dilation and curettage (D & C – sharp curettage)
4 = Prostaglandin
5 = Saline/fluid exch.
6 = Menstrual extr. (–preg.)
7 = Menstrual extr. (+ preg.)
8 = Hysterectomy/otomy
9 = Other (please specify) ________

COMPLICATIONS OR FAILURES
0 = None

Minor Complication: DID NOT REQUIRE HOSPITALIZATION:
1 = Heavy bleeding
2 = Infection
3 = Post abortal syndrome
4 = Failed Ab. (pregnancy not terminated)
5 = Incomplete Ab. (pregnancy terminated; tissue retained)
6 = Uterine perforation
7 = Cervical injury
8 = Fever (38ºC)
9 = Other (please specify) ________
51 ☐

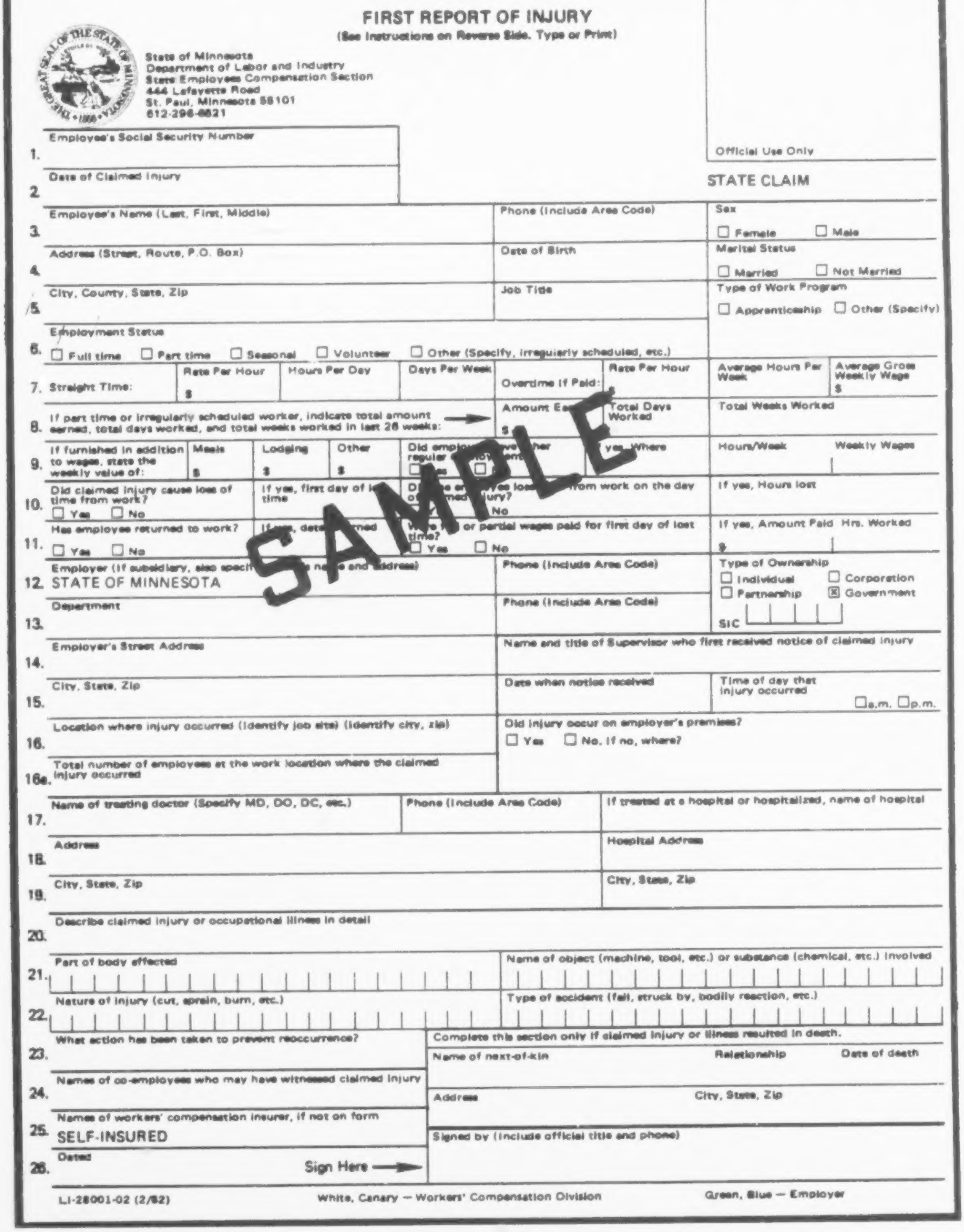
Major Complication – DID REQUIRE HOSPITALIZATION:
10 = Pelvic infection
11 = Hemorrhage requiring one or more transfusions
12 = Other, please specify: ________
53 ☐☐

TREATMENT (We will code for combinations)
1 = Repeat curettage
2 = Medication
3 = Other (please specify): ________
52 ☐

TREATMENT (We will code for combinations)
4 = Transfusion
5 = Laparotomy
6 = Hysterectomy
7 = Other (please specify) ________
55 ☐

HE-01160-03

FIGURE 13



FIRST REPORT OF INJURY

(See Instructions on Reverse Side. Type or Print)

State of Minnesota
Department of Labor and Industry
State Employees Compensation Section
444 Lafayette Road
St. Paul, Minnesota 55101
612-296-6521

Official Use Only

STATE CLAIM

1. Employee's Social Security Number
2. Date of Claimed Injury
3. Employee's Name (Last, First, Middle) | Phone (Include Area Code) | Sex ☐ Female ☐ Male
4. Address (Street, Route, P.O. Box) | Date of Birth | Marital Status ☐ Married ☐ Not Married
5. City, County, State, Zip | Job Title | Type of Work Program ☐ Apprenticeship ☐ Other (Specify)
6. Employment Status ☐ Full time ☐ Part time ☐ Seasonal ☐ Volunteer ☐ Other (Specify, irregularly scheduled, etc.)
7. Straight Time: Rate Per Hour $ | Hours Per Day | Days Per Week | Overtime If Paid: Rate Per Hour $ | Average Hours Per Week | Average Gross Weekly Wage $
8. If part time or irregularly scheduled worker, indicate total amount earned, total days worked, and total weeks worked in last 26 weeks: → Amount E[illegible] $ | Total Days Worked | Total Weeks Worked
9. If furnished in addition to wages, state the weekly value of: Meals $ | Lodging $ | Other $ | Did emplo[illegible] regular [illegible] ☐ [illegible] ☐ [illegible] | [illegible] yes, Where | Hours/Week | Weekly Wages
10. Did claimed injury cause loss of time from work? ☐ Yes ☐ No | If yes, first day of l[illegible] time | D[illegible] from work on the day o[illegible] jury? [illegible] No | If yes, Hours lost
11. Has employee returned to work? ☐ Yes ☐ No | If [illegible], date [illegible] | W[illegible] or partial wages paid for first day of lost time? ☐ Yes ☐ No | If yes, Amount Paid $ | Hrs. Worked
12. Employer (If subsidiary, also speci[illegible] n[illegible]e and address) STATE OF MINNESOTA | Phone (Include Area Code) | Type of Ownership ☐ Individual ☐ Corporation ☐ Partnership ☒ Government
13. Department | Phone (Include Area Code) | SIC
14. Employer's Street Address | Name and title of Supervisor who first received notice of claimed injury
15. City, State, Zip | Date when notice received | Time of day that injury occurred ☐a.m. ☐p.m.
16. Location where injury occurred (identify job site) (identify city, zip) | Did injury occur on employer's premises? ☐ Yes ☐ No, If no, where?
16a. Total number of employees at the work location where the claimed injury occurred
17. Name of treating doctor (Specify MD, DO, DC, etc.) | Phone (Include Area Code) | If treated at a hospital or hospitalized, name of hospital
18. Address | Hospital Address
19. City, State, Zip | City, State, Zip
20. Describe claimed injury or occupational illness in detail
21. Part of body affected | Name of object (machine, tool, etc.) or substance (chemical, etc.) involved
22. Nature of injury (cut, sprain, burn, etc.) | Type of accident (fall, struck by, bodily reaction, etc.)
23. What action has been taken to prevent reoccurrence?
24. Names of co-employees who may have witnessed claimed injury
25. Names of workers' compensation insurer, if not on form SELF-INSURED
26. Dated | Sign Here →

Complete this section only if claimed injury or illness resulted in death.
Name of next-of-kin | Relationship | Date of death
Address | City, State, Zip

Signed by (include official title and phone)

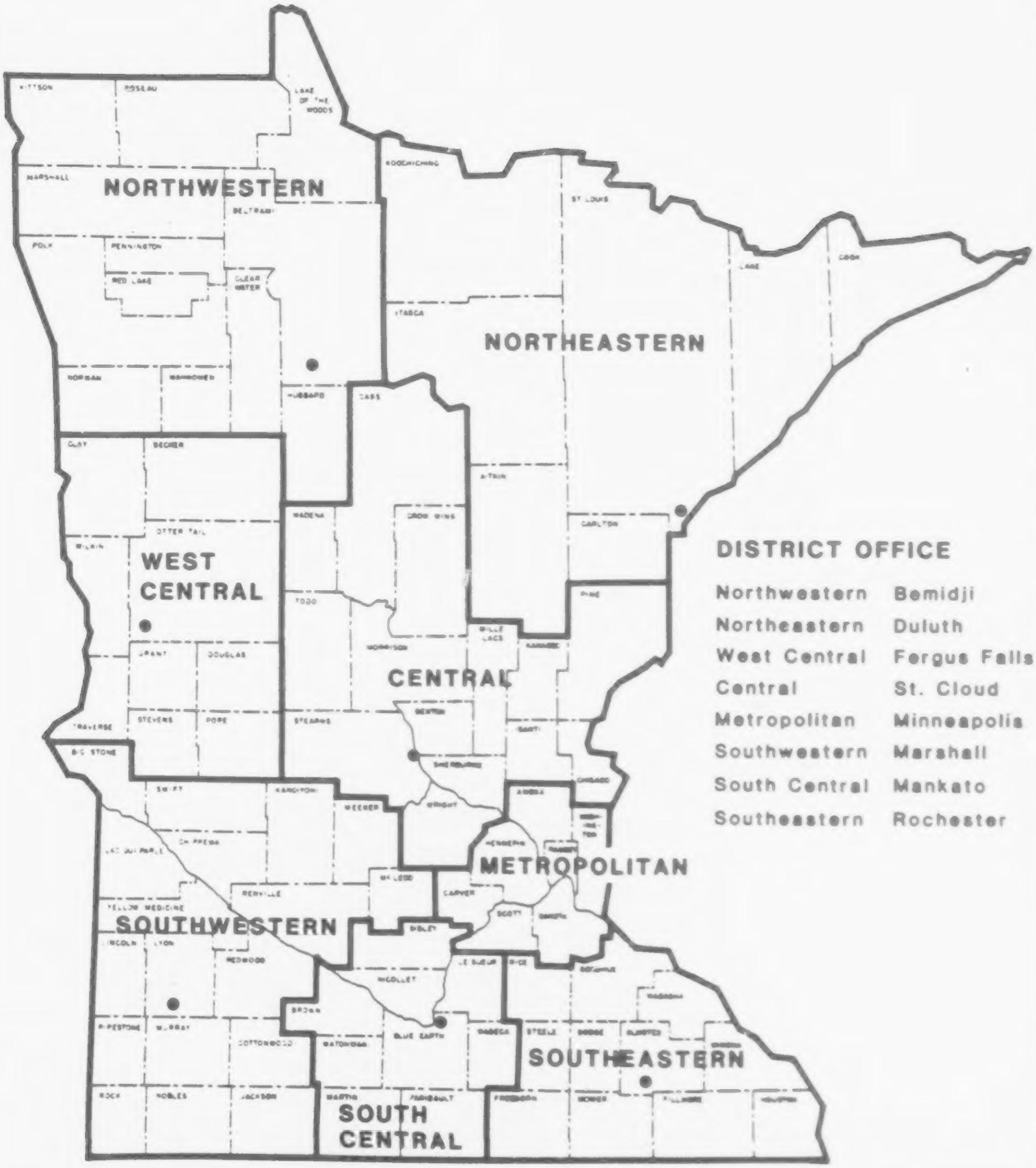
LI-28001-02 (2/82) White, Canary — Workers' Compensation Division Green, Blue — Employer

SAMPLE

APPENDIX C

MAP OF HEALTH DISTRICTS AND OFFICES

Figure 14
Health Districts and Offices


NORTHWESTERN
NORTHEASTERN
WEST CENTRAL
CENTRAL
METROPOLITAN
SOUTHWESTERN
SOUTHEASTERN
SOUTH CENTRAL

DISTRICT OFFICE

Northwestern	Bemidji
Northeastern	Duluth
West Central	Fergus Falls
Central	St. Cloud
Metropolitan	Minneapolis
Southwestern	Marshall
South Central	Mankato
Southeastern	Rochester